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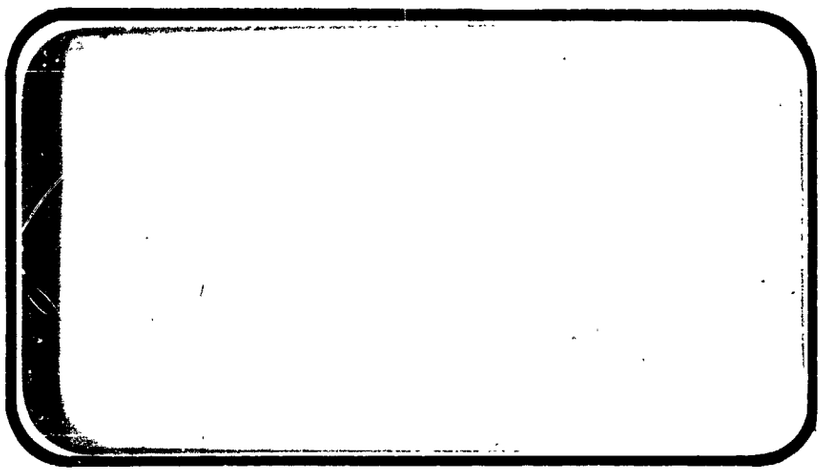

NASA-CR-134074) EFFECT OF REACTION CONTROL SYSTEM JET-FLOW FIELD INTERACTIONS ON A 0.015 SCALE MODEL SPACE SHUTTLE ORBITER AERODYNAMIC (Chrysler Corp.) 425 p HC $24.25 CSCL 22B

N74-18508

Unclas G3/31 31424

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER CORPORATION

NOVEMBER 1973

DMS-DR-2069
NASA-CR-134,074

EFFECTS OF REACTION CONTROL SYSTEM JET-FLOW FIELD INTERACTIONS ON A 0.015 SCALE MODEL SPACE SHUTTLE ORBITER AERODYNAMIC CHARACTERISTICS

By

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Prepared under NASA Contract Number NAS9-13247

by

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for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS

Test Number: LaRC UPWT 1031
NASA Series No.: MA-7
Date: May 14-18, 1973

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EFFECTS OF REACTION CONTROL SYSTEM JET-FLOW FIELD INTERACTIONS ON A 0.015 SCALE MODEL SPACE SHUTTLE ORBITER AERODYNAMIC CHARACTERISTICS

By

William J. Monta* and J. R. Rausch**

SUMMARY

This report presents results from an experimental program sponsored by NASA-Johnson Space Center on the effects of the Reaction Control System (RCS) jet-flow field interactions on the Space Shuttle orbiter system during entry. The primary objective of the test program was to obtain data for the Rockwell International Preliminary Requires Review (PRR) shuttle orbiter configuration to determine control amplification factors resulting from jet interaction between the RCS plumes and the external flow over the vehicle. A secondary objective was to provide data for comparison and improvement of analytic jet interaction prediction techniques.

To accomplish the objectives, testing was conducted by General Dynamics Convair Aerospace Division in the NASA Langley Research Center 4 x 4-Ft Unitary Wind Tunnel on an 0.015 Scale Model of the Rockwell PRR Configuration. Tests were made at Mach numbers of 2.5, 3.0 and 4.0 over a Reynolds number per foot range of 3.0 to 5.0 million. The model was pitched through an angle-of-attack range of 0 to 20 degrees with angles-of-sideslip of 0 and $\pm$5 degrees.

*NASA/LaRC
**GD/C

The test program in the 4 x 4-Ft Unitary Wind Tunnel was divided into two phases; (1) force and moment measurements were made with and without RCS blowing, investigating environment parameters (R_e, α, β), RCS plume parameters (Jet pressure ratio, momentum ratio and thrust level), and geometry parameters (RCS pod locations) on the orbiter model, (2) oil flow visualization tests were conducted on a dummy balance at the end of the test. Only the results of phase 1 testing are included in this report.

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Plotted Coefficient Schedule

A) CN, CL, CLM, CA, CD, CY, CYN, CLN, CBL, CSL vs ALPHA

B) ΔCN, ΔCL, ΔCLM, ΔCA, ΔCD, ΔCY, ΔCYN, ΔCLN, ΔCBL, ΔCSL vs ALPHA

NOMENCLATURE
General

SYMBOL	SADSAC SYMBOL	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$
		Reference & C.G. Definitions
A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	SADSAC SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
L/D	L/D	lift-to-drag ratio; C_L/C_D

NOMENCLATURE

ADDITIONS TO STANDARD LIST

SYMBOL	SADSAC SYMBOL	DEFINITION
P_{oj}	PO-JET	total pressure in model RCS nozzle chamber, psi
A/A*		nozzle exit to throat area ratio.

CONFIGURATIONS INVESTIGATED

General Dynamics/Convair furnished an 0.015 scale model of the space shuttle PRR orbiter configuration which is shown in Figure 2. The model was cast and fabricated from 17-4 PH stainless steel using the PRR configuration design furnished by Rockwell International. Two left hand OMS pods were made; one from steel for the force tests and the other with a RTV covering for heat transfer tests. The RTV OMS pod had a white grid on the surface to assist in data reduction. In addition, one yaw nozzle configuration was covered with RTV for heat transfer tests with thrust. Only the force test configurations were used in this test.

The principal RCS locations tested are the yaw and roll thrusters located on the OMS pods near the base of the vehicle.

ORBITER MODEL

Figure 4 presents a cut-away of the orbiter model while Figures 5 to 7 present close-up photographs showing model details. The model consists of the following parts:

a. removable nose

b. fuselage afterbody

c. lower fuselage afterbody for wing-off

d. lower-aft fuselage cover (heat shield/cover)

e. fuselage afterbody fairings

f. OMS pods

g. vertical tail

h. tail-off block

i. wing

j wing tip dummy RCS pod

k. balance adapter for the 6-component balance

l. non-metric RCS plenum and supply line

m. several nozzle configurations

All model parts are cast or machined from 17 PH stainless steel.

As shown in the Figure 4, the RCS engines are not mounted on the wind tunnel balance so that all that is measured is the basic configuration forces and moment and the resulting changes in these data from interactions caused by RCS operation.

NOZZLE CONFIGURATIONS

Figure 8 gives the details of the nozzle configurations furnished with the model. The nozzles are conical with a circular throat section.

The nozzle configurations available include:

a. Twin nozzle yaw configuration having an expansion ratio of 2.72, N_1 (-33 part)

b. Twin nozzle yaw configuration having an expansion ratio of 1.61, N_2 (-35 part)

c. Twin nozzle yaw configuration having an expansion ratio of 1.91, N_3 (-37 part)

d. Single nozzle yaw configuration having an equivalent nozzle area as (a) above with an expansion ratio of 2.72 N_5 (-39 part)

e. Twin nozzle roll configuration left hand side exhausting downward having an expansion ratio of 2.72, N_{40} (-29 part)

f. Twin nozzle roll configuration right hand side exhausting upward having an expansion ratio of 2.72, N_{41} (-31 part). N_4 represents both N_{40} and N_{41}.

The twin nozzle configurations are 1.5 exit diameters apart and are mounted as shown in Figure 9.

The nozzle configurations are designed to plug into the RCS plenum using an "O" ring as a seal. One dummy RCS pod is also furnished (-43) for sealing one side of the plenum as required. The roll RCS pod configurations are designed to be used individually or together.

Only the N_1, N_4, N_{40} and N_{41} nozzles (model parts -33, -29 and -31) were used in this test.

RCS ENGINE SIMULATION

The RCS engine simulated in this study is a hydrazine monopropellant rocket engine with the following full-scale characteristics:

1) chamber conditions

T_c = 2000°F

p_c = 157 psia

2) nozzle

80% bell

A/A^* = 20

exit diameter = 9.5 inches

3) thrust = 1110 lbs (vacuum)

The Reactor Control System used during entry consists of two yaw control engines and two roll control engines per side of the vehicle.

The reference entry trajectory used to establish the environmental conditions is the Rockwell International nominal guided entry trajectory (Trajectory Number 2007).

The baseline nozzle characteristics were combined with the reference trajectory using an isentropic expansion to define nozzle exit conditions to derive the nozzle flow parameter variation during entry. These parameters include:

1. nozzle exit static pressure ratio
2. nozzle thrust coefficient
3. nozzle momentum ratio
4. nozzle thrust ratio
5. nozzle mass flow ratio
6. nozzle temperature ratio
7. Herron's plume parameter

Reference 1 defines the values for the above parameters.

The nozzle ratios (thrust, momentum, mass flow, and temperature) were determined from the expressions given by Pindzola in reference 2 while Herron's parameter was defined in reference 3.

In order to determine the scaled nozzles which matched these parameters, the wind tunnel ambient conditions were obtained for the test Mach numbers and Reynolds numbers and the properties of the auxiliary air were assumed (R, T_{supply}).

The scaled nozzle expansion ratio and supply pressures were calculated to match both nozzle exit pressure ratio and thrust coefficient simultaneously for a given test gas and a given test condition. One matched nozzle was determined for each test gas (air or helium). Matching thrust coefficient and pressure ratio for these nozzles results in matching momentum ratio and thrust ratio but not mass flow ratio. The remaining nozzle parameters were computed at the other test conditions for each matched nozzle. A third nozzle was then sized for air as the test gas, matching full scale mass flow ratio and pressure ratio. A fourth nozzle, designed the same as the air nozzles (matching pressure ratio and thrust coefficient), was sized to have the throat area of two nozzles. This nozzle was used, in place of the two nozzle set, to determine if the analytic approach using a single equivalent nozzle to represent closely spaced nozzles is realistic.

The parameters for all these nozzles were computed at all test conditions. The run schedule was set up to obtain the greatest variation in parameters available for a given set of nozzles. Only the nozzles matched for air as the test gas were used in this test.

TEST FACILITY DESCRIPTION

The NASA LRC 4 foot Unitary Plan Wind Tunnel (UPWT) is a closed-circuit, continuous flow, variable density facility. The test section is 4 feet by 4 feet by 7 feet long.

Two tunnel legs are available for supersonic testing in the Mach number ranges 1.47 to 2.86 (Leg No. 1) and 2.29 to 4.63 (Leg No. 2). Both tunnel legs were used for this test. An asymmetric, sliding block nozzle position and total pressure setting provide the test Mach numbers at a specified Reynolds number. Reynolds number can be varied from 0.76 to 7.78 million per foot. Available stagnation pressure variation is 4.0 to 142. psia. Dynamic pressure variation is 95. to 1260. psf with normal operating stagnation temperature about 150°F in Mach modes 2 or 3 and about 175°F in Mach mode 4. The tunnel is equipped with a dry air supply, an evacuating system, and a cooling system. The facility power is approximately 83,000 horsepower.

Model mounting provisions consist of various sting arrangements, including axial (longitudinal), lateral (independent pitch and yaw), and roll movement with side wall support. A Schlieren system and oil flow visualization equipment are available. Data are recorded at the tunnel and reduced off-line at the Langley Computer Center. The tunnel is used for force and moment, pressure, and dynamic stability tests. Hot and cold jet effects and heat transfer have been studied in the UPWT.

DATA REDUCTION

The measured forces and moments from the balance were reduced to aerodynamic coefficients using the standard reduction equations in both stability and body axis with the following reference area and lengths.

S_{ref} = 0.7245 ft^2

b_{ref} = 15.1152 inches (lateral-directional reference length)

$\bar{c}$(MAC) = 7.8828 inches (longitudinal reference length)

In the addition the moments are about a moment reference center (MRC) as shown in Figure 9.

Model Station 12.951

Model Water Line 6.000

All data have been corrected for deflection of the sting and balance due to aerodynamic loads. Corrections have also been made for flow angularity of the test section as determined from existing flow calibrations. No correction has been made to pitching moment to account for flow curvature, however. Model cavity pressure was measured with static orifices located in the vicinity of the balance, but model base pressure was not measured. No adjustment was made to axial force or drag data for cavity nor base pressure.

In addition to the normal aerodynamic coefficients incremental coefficient values between jet-on and jet-off runs were computed so that interaction increments are also presented as functions of angle of attack and yaw.

$$\Delta C_N = (C_{N_{\text{jet on}}} - C_{N_{\text{jet off}}})$$

$$\Delta C_m = (C_{m_{\text{jet on}}} - C_{m_{\text{jet off}}})$$

$$\Delta C_Y = (C_{Y_{\text{jet on}}} - C_{Y_{\text{jet off}}})$$

$$\Delta C_n = (C_{n_{\text{jet on}}} - C_{n_{\text{jet off}}})$$

$$\Delta C_\ell = (C_{\ell_{\text{jet on}}} - C_{\ell_{\text{jet off}}})$$

It should be pointed out that the test utilized yaw jets on the port side which generated negative yawing moments and positive side forces, while the roll jets generated positive (right wing down) rolling moments.

Calibration tests were performed in a vacuum chamber at Convair Aerospace Division from March 26 to 28, 1973 in order to establish the nozzle thrust and mass flow as functions of nozzle plenum pressure.

The nozzle assemblies were mounted on a single component strain gage force balance in a 5 foot diameter vacuum chamber to obtain direct measurement of thrust of each nozzle block.

The mass flow data was computed by measuring the pressure drop across an orifice plate for which the constants had been determined by prior calibrations. Calibration runs were made both at 5 psia and 3 psia pressures in the vacuum chamber using dry Nitrogen as the test gas for all nozzles and additional helium as the test gas for one nozzle. The measured nozzle thrust data were then corrected to vacuum conditions. The results of these calibrations are presented in Reference 1.

REFERENCES

1. Rausch, J. R. and Carter, W. V., "Pre-Test Report, Wind Tunnel Tests of a 0.015 Scale Space Shuttle Orbiter Model in the NASA-LRC 4 x 4-Ft Unitary Wind Tunnel to Determine Effects of RCS Jet-Flow Field Interactions on the Aerodynamic Characteristics," GD/C Aero Tech Note TN-73-AE-07.

2. Pindzola, M., "Jet Simulation in Ground Test Facilities," AGARDograph 79, Nov. 1963.

3. Herron, R.D., "Investigation of Jet Boundary Simulation Parameters for Underexpanded Jets in a Quiescent Atmosphere," AEDC Report AEDC-TR-68-108, Sept. 1968.

4. Fournier, R., Spencer B., Jr., "Aerodynamic Stability and Control Characteristics of a 0.01925 Scale Model NR-ATP Orbiter at Mach Numbers from 1.9 to 4.63" NASA Langley Research Center Space Shuttle Report DMS-DR-2001, Nov. 1972.

TABLE I.

TEST : UPWT 1031 (MA-7)		DATE :	
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
2.50	3.0×10^6	4.528	150°
2.95	3.0×10^6	4.021	150°
4.00	1.0×10^6	1.007	175°
4.00	3.0×10^6	3.021	175°
4.00	5.0×10^6	5.042	175°

BALANCE UTILIZED: LaRC # 839, 6 component strain gage

	CAPACITY:	ACCURACY: 1/2 % F.S. Load	COEFFICIENT ACCURACY Min. q	Max q
NF	800 #	4.0 #	.0381	.0075
SF	200 #	1.0#	.0095	.0019
AF	60#	0.3#	.00286	.00057
PM	1600 in.#	8.0 in. #	.0605	.0121
RM	400 in. #	2.0 in. #	.0151	.0031
YM	400 in. #	2.0 in. #	.0151	.0031

COMMENTS:

TABLE II.

IIPWT 1031 (MA-7) DATA SET/RUN NUMBER

CONFIGURATION SUMMARY

☐ PRETEST
☒ POSTTEST

Sheet 1

RUN NUMBER	CONFIGURATION	SCHEDULES α	SCHEDULES β	P_{oj}	RM	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	2.95	4.0
RPM001	BTN1	B	0	37	1.0			81
02				328				79
03				600				80
04	BTN40			0				73
05				37				74
06				100				75
07				199				76
08				328				77
09				600				78
10	BWN41			0				67
11				37				68
12				100				69
13				199				70
14				328				71
15				600				72
16	BWTN1	A	0	0	3.0	15	19	
17			-5	0		18		
18			0	187		16		
19			-5	187		17		
20			0	157			20	

A) 0° → 20°
B) 12° → 35°
C) 12° → 25°

α or β SCHEDULES

NASA-MSFC-MAF

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

TABLE II. (Continued)

LIPWT 1031

☐ PRELIM
✕ PD

SHEET 2

| DATA SET IDENTIFIER | CONFIGURATION | SCHD. | | PARAMETER VALUES | | NO. of PTS. | M | | |

TABLE II. (CONTINUED)

TEST UPWT 1031 DATA SET/RUN NUMBER

COLLATION SUMMARY

☐ PRETEST ☒ POST TEST

SHEET 3

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES P_{01}	PARAMETERS/VALUES RN/L	NO. of RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	2.95	4.0
RPM040	BWTN4	B	0	0	1.0				26
41			-2.5						34
42			-5.0						31
43			0		3.0				21
44		C			5.0				24
45		B		37	1.0				27
46		B		99	1.0				35
47		B		103	3.0				22
48		C		178	5.0				25
49		B		199	1.0				28
50				328					29
51			-2.5						33
52			-5.0						32
53			0	559	3.0				23
54			0	600	1.0				30
55	BWTN40	A	0	0	3.0		41	43	
56		A	0	151	3.0			44	
57		A	0	198	3.0		42		

α or β SCHEDULES

NASA-MSFC-MAF

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

TABLE II. (Concluded)

TEST UPWT 1031 DATA SET/RUN NUMBER

COMPILATION SUMMARY

☐ PRETEST
☒ POSTTEST

Sheet 4

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES Poj	PARAMETERS/VALUES RN/L	NO. of RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	2.95	4.0	TEST RUN NUMBERS
RM058	BWTN40	B	0	0	1.0				48	
59				0	3.0				45	
60				37	1.0				49	
61				100	1.0				53	
62				163	3.0				46	
63				199	1.0				50	
64				328	1.0				51	
65				559	3.0				47	
66				600	1.0				52	
67	BWTN41	A	0	0	3.0		63	65		
68				151	3.0			66		
69				185	3.0		64			
70		B	0	0	1.0				57	
71				0	3.0				54	
72				37	1.0				58	
73				100	1.0				59	
74				103	3.0				55	
75				199	1.0				60	
76				328	1.0				61	
77				559	3.0				56	
78				600	1.0				62	

α or β SCHEDULES

NASA-MSFC-MAF

TABLE III. MODEL COMPONENT DIMENSIONS

MODEL COMPONENT: N_1

GENERAL DESCRIPTION: Reaction Control System Yaw Nozzles N_1 Scaled for Air as Test Gas

DRAWING NUMBER:

DIMENSIONS:	FULL-SCALE	MODEL-SCALE
NUMBER OF NOZZLES	2	2
EXPANSION RATIO	20	7.37
EXIT DIA.	9.5"	0.146"
EXIT ANGLE	8°	15°
LOCATION		LEFT SIDE ONLY
X STA		23.913"
Y STA		2.195
Z STA		7.123
GAS	N_2H_4	Air

TABLE III. MODEL COMPONENT DIMENSIONS (Continued)

MODEL COMPONENT: N_4

GENERAL DESCRIPTION: Reaction Control System Roll Nozzles - Roll Right (Left Thruster Exhausts Toward Wing, Right Nozzle Past Vertical Fin)

DRAWING NUMBER:

DIMENSIONS:	FULL-SCALE	MODEL-SCALE
NUMBER OF NOZZLES	4	4 (2 left, 2 right)
EXPANSION RATIO	20	7.37
EXIT DIA.	9.5"	0.0146
EXIT ANGLE	8°	15°
LOCATION		Right Wing Down Roll Only
X STA		23.775
Y STA		1.750
Z STA		7.686 & 5.561
GAS	N_2H_4	Air

TABLE III. MODEL COMPONENT DIMENSIONS (Continued)

MODEL COMPONENT: N_{40}

GENERAL DESCRIPTION: Reaction Control System Left Side Pitch/Roll Nozzles Exhausting Toward Wing

DRAWING NUMBER:

DIMENSIONS:	FULL-SCALE	MODEL-SCALE
NUMBER OF NOZZLES	2	2
EXPANSION RATIO	20	7.37
EXIT DIA.	9.5	0.146
EXIT ANGLE	8°	15°
LOCATION		Left Side Exhausting Down
X STA		23.775
Y STA		1.75
Z STA		5.561
GAS		

TABLE III. MODEL COMPONENT DIMENSIONS (Concluded)

MODEL COMPONENT: N_{41}

GENERAL DESCRIPTION: Reaction Control System Right Side Pitch/Roll Nozzles Firing Upward Past Vertical Fin

DRAWING NUMBER:

DIMENSIONS:	FULL-SCALE	MODEL-SCALE
NUMBER OF NOZZLES	2	2
EXPANSION RATIO	20	7.37
EXIT DIA.	9.5	0.146
EXIT ANGLE	8°	15°
LOCATION		Right Side Exhausting Up
X STA		23.775
Y STA		1.75
Z STA		7.686
GAS		

Notes:

1. Positive directions of force cofficients, moment coefficients, and angles are indicated by arrow
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

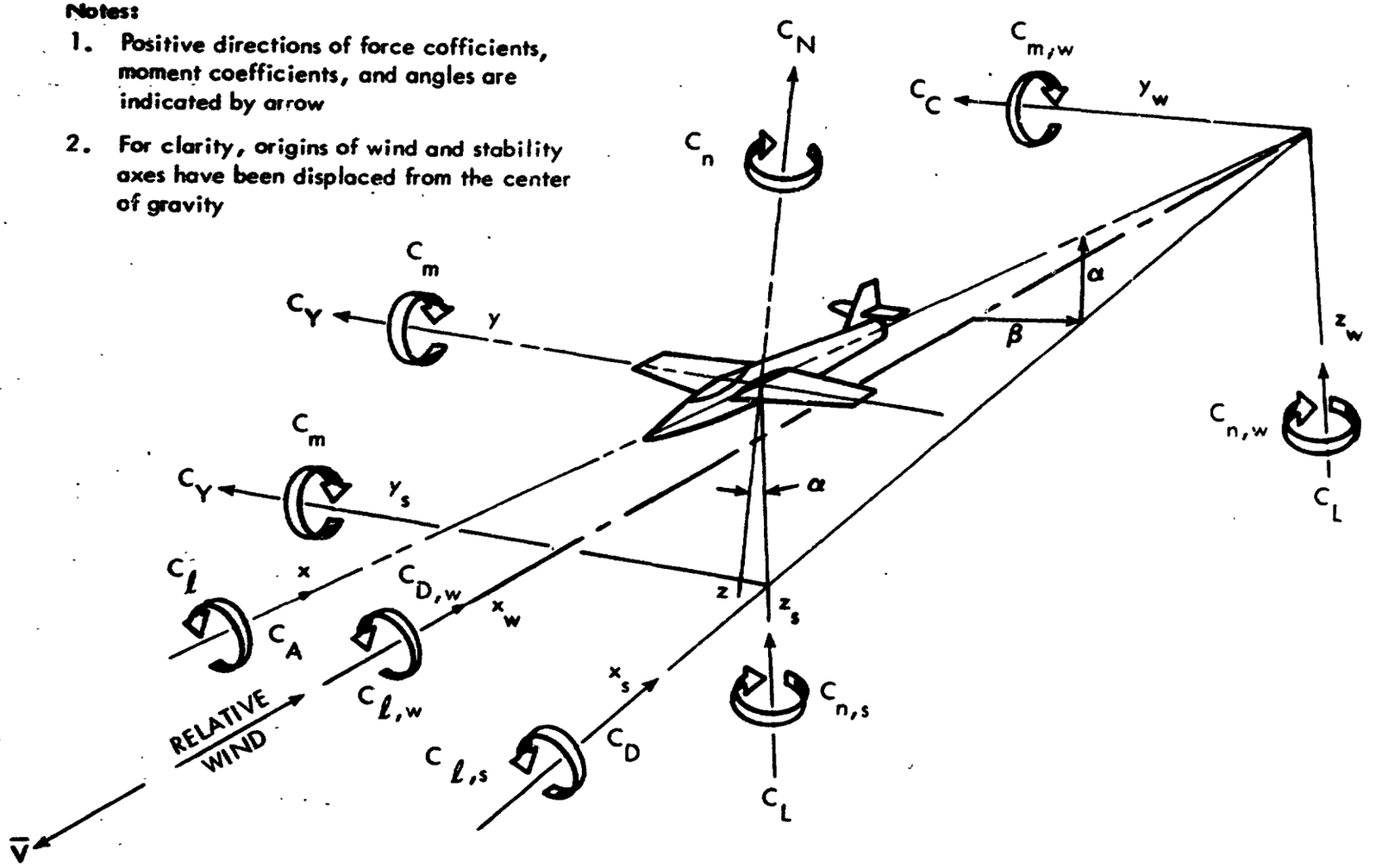


Figure 1. Axis Systems

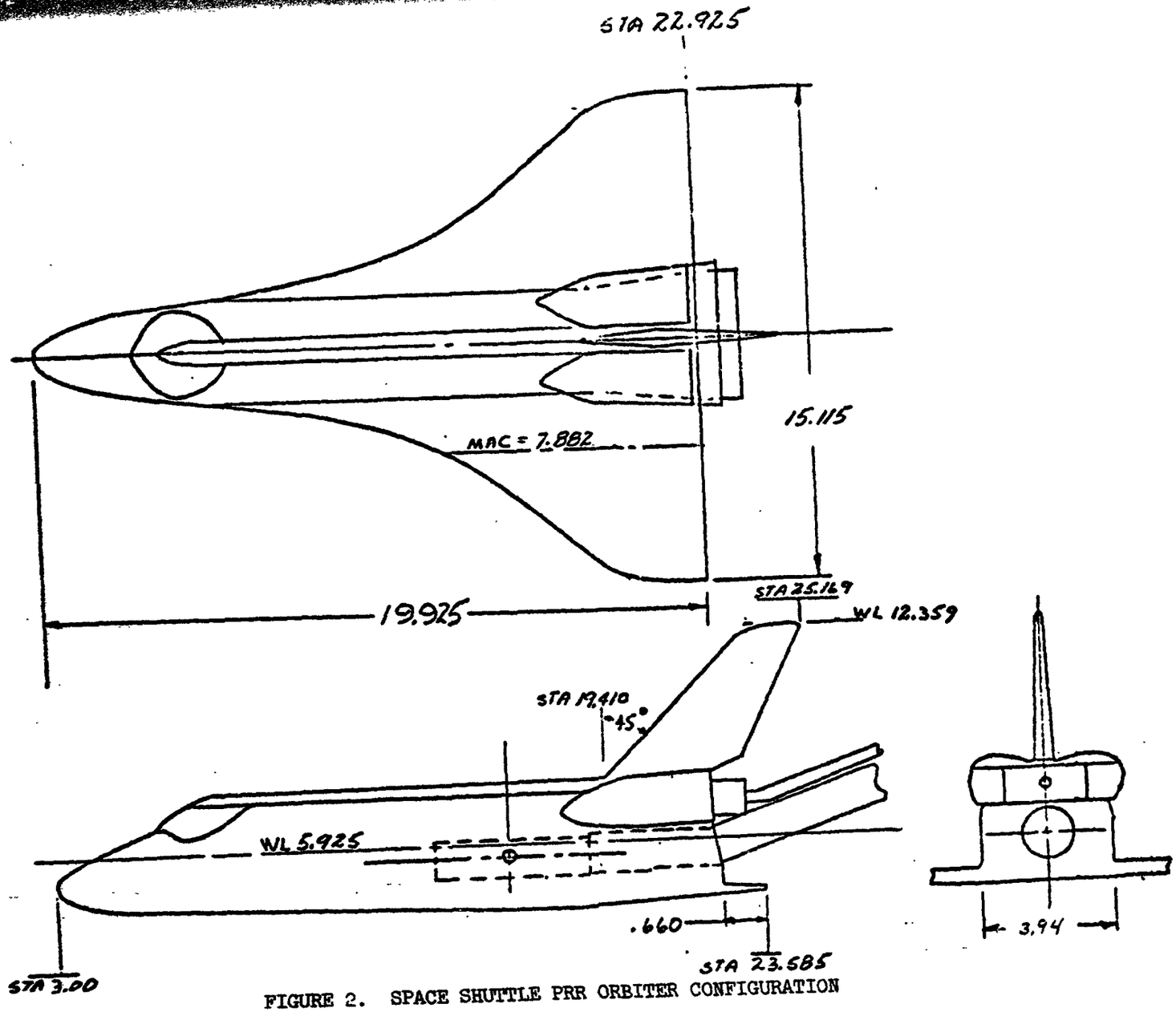


FIGURE 2. SPACE SHUTTLE PRR ORBITER CONFIGURATION

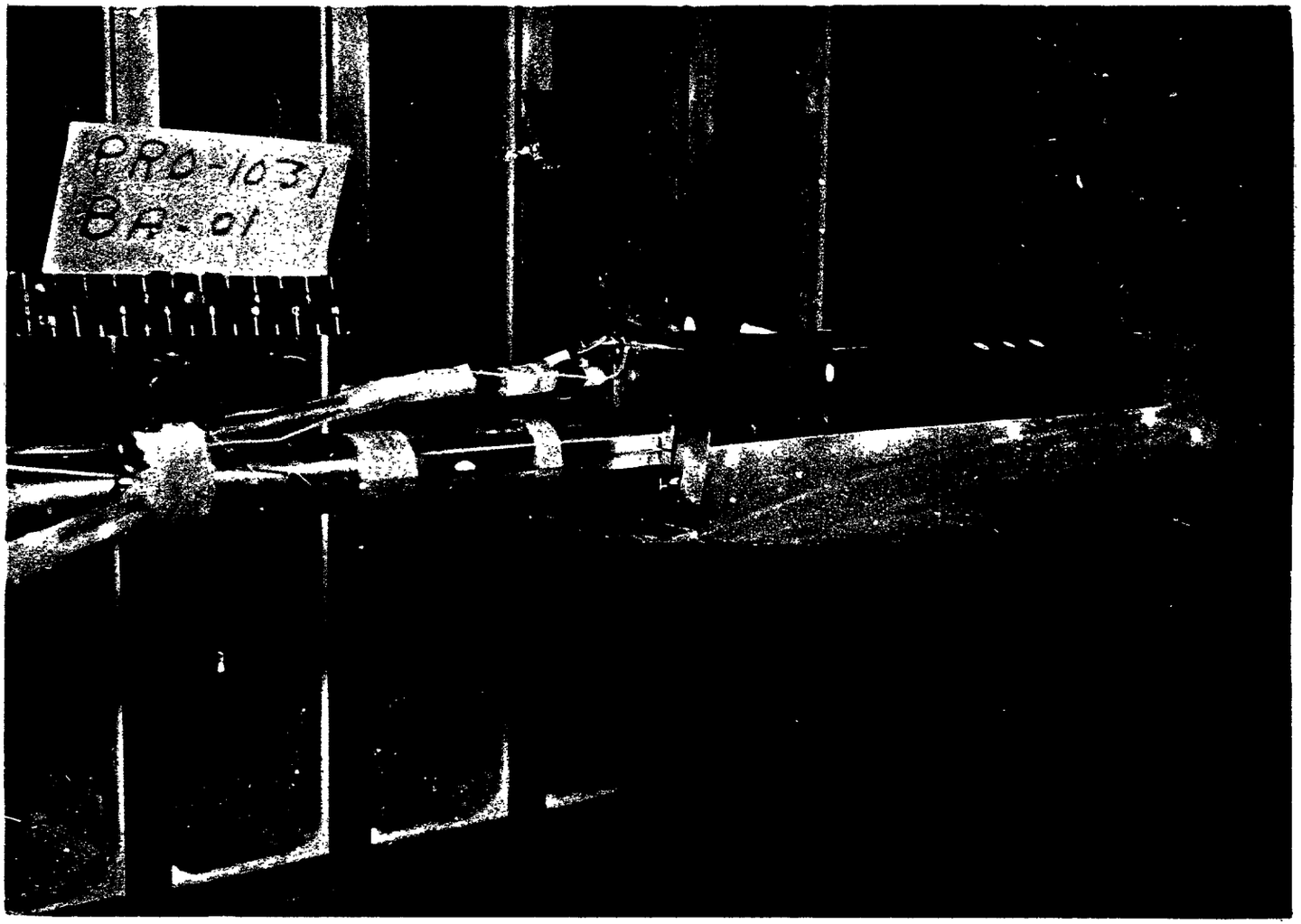


Figure 3. Photograph of .015 Scale Model Orbiter Installed in the NASA/LARC Unitary Plan Wind Tunnel

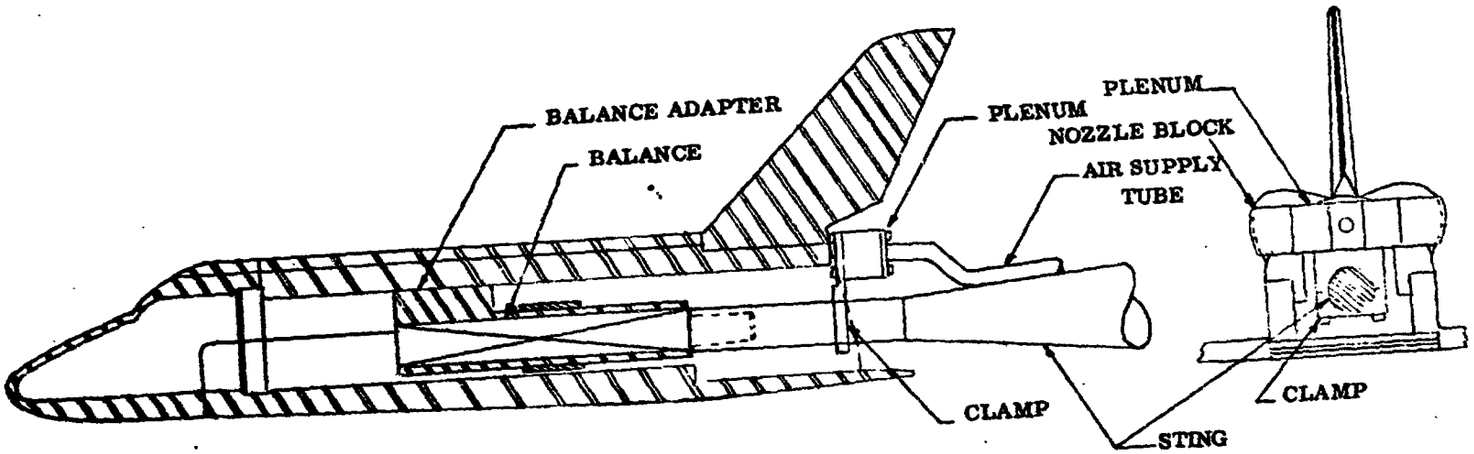


FIGURE 4. CUT-AWAY OF ORBITER SHOWING MODEL ASSEMBLY DETAILS

Figure 5. Photograph of .015 Scale Model Orbiter & RCS Nozzles.

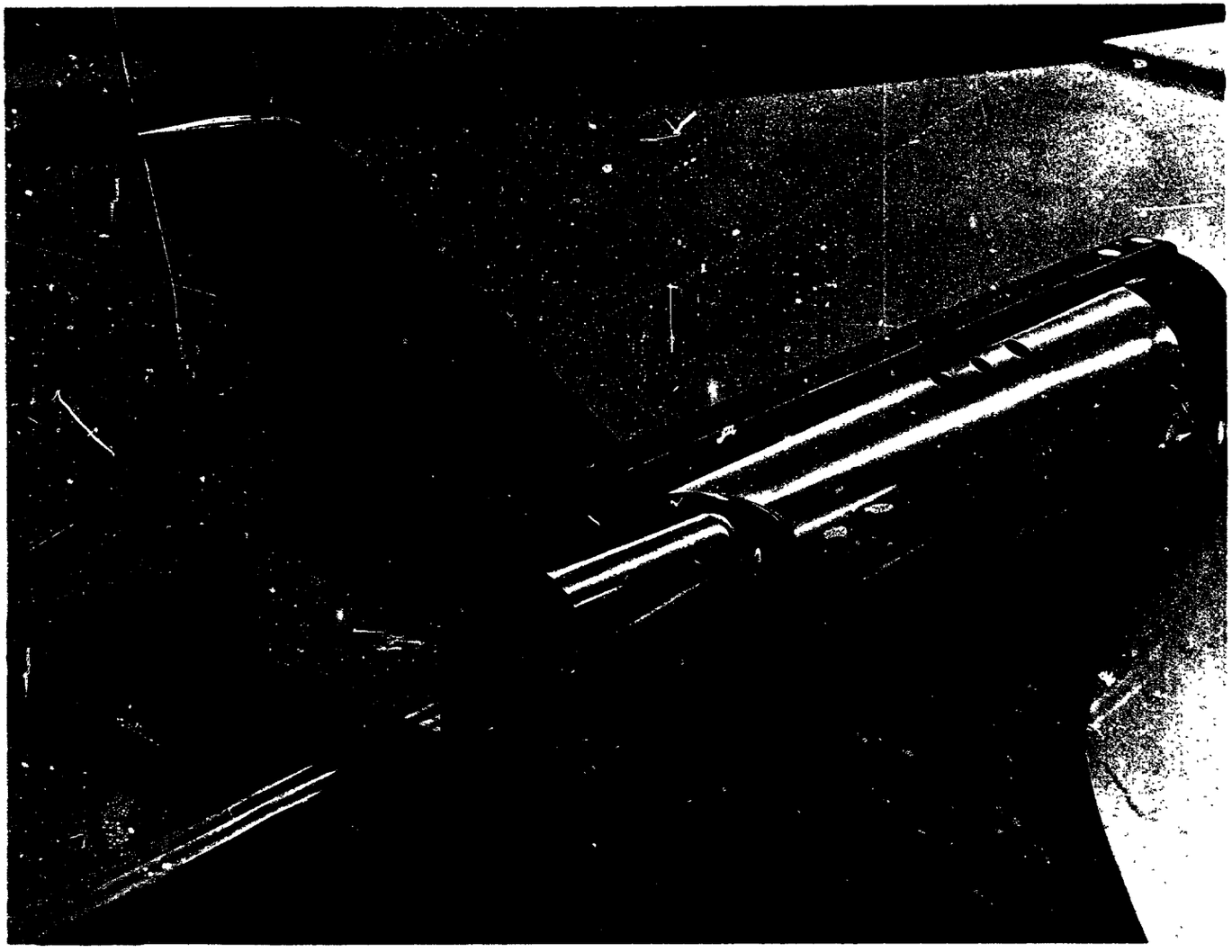


Figure 6. Photograph of .015 Scale Model Orbiter Depicting RCS Nozzle Installation.

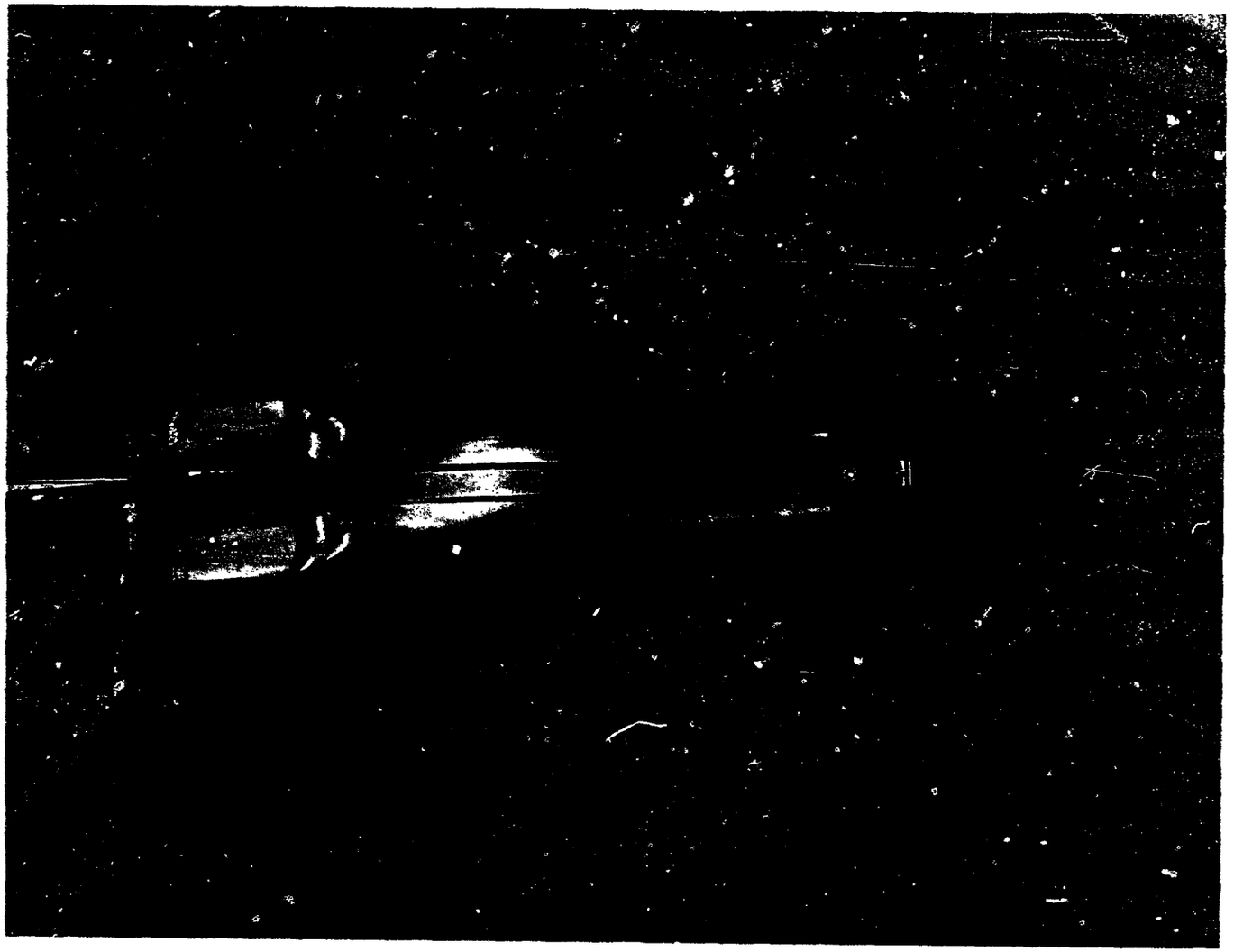
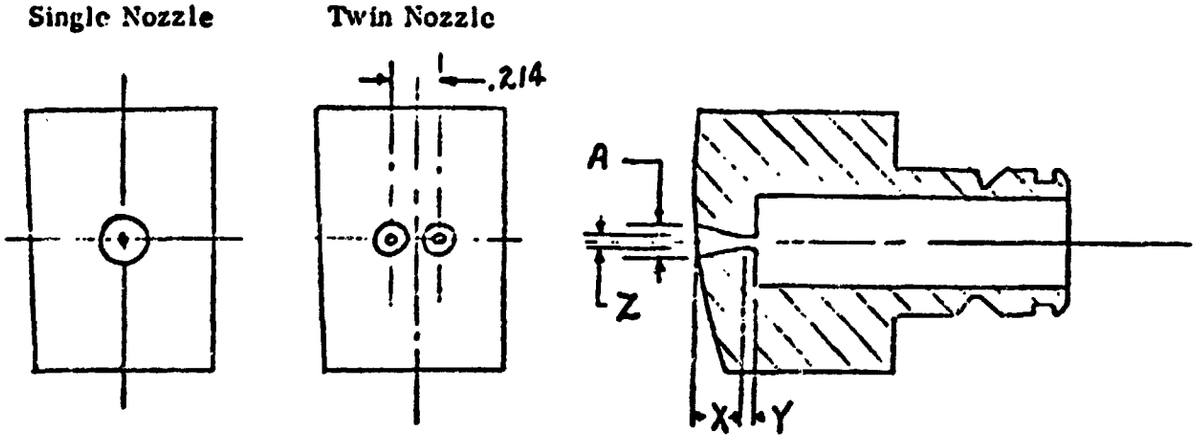
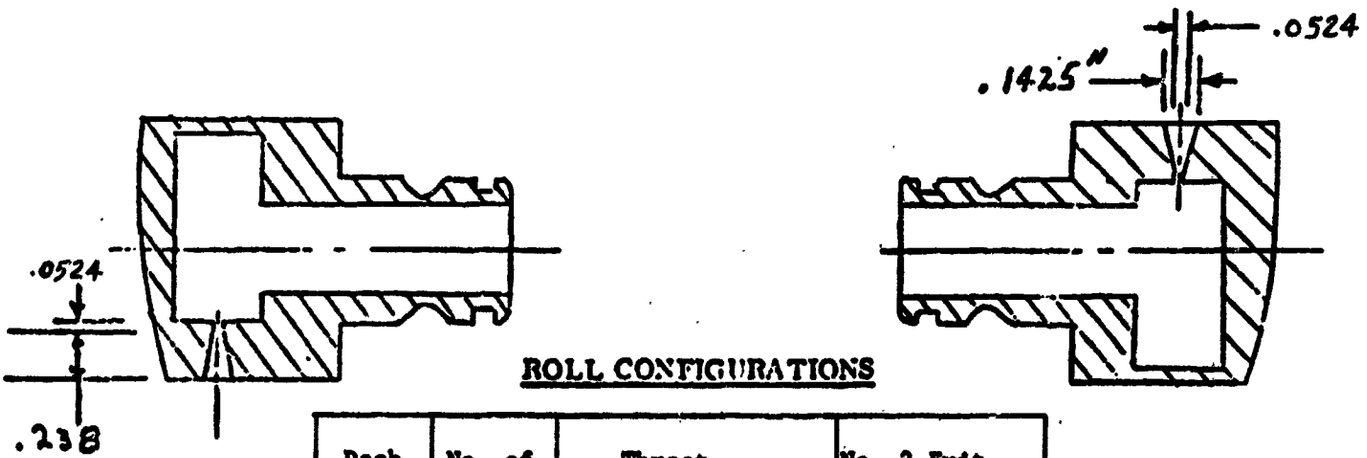


Figure 7. Photograph of .015 Scale Model Orbiter (Top View)



YAW CONFIGURATIONS

Dash No.	No. of Nozzles	X		Z		A		Exp. Ratio
		X	Y	Dia	Area	Dia	Area	
-33	2	.238	.524	.0524	.002156	.1425	.0159	2.72
-35	2	.169	.0883	.0883	.00612	.1425	.0159	1.61
-37	2	.199	.0748	.0748	.004394	.1425	.0159	1.91
-39	1	.337	.0741	.0741	.004312	.2015	.0319	2.72



ROLL CONFIGURATIONS

Dash No.	No. of Nozzles	Throat		No. 2 Exit	
		Dia.	Area	Dia.	Area
-29	2	.0524	.002156	.1425	.0159
-31	2	.0524	.002156	.1425	.0159

FIGURE 8. DETAILS OF NOZZLE GEOMETRY

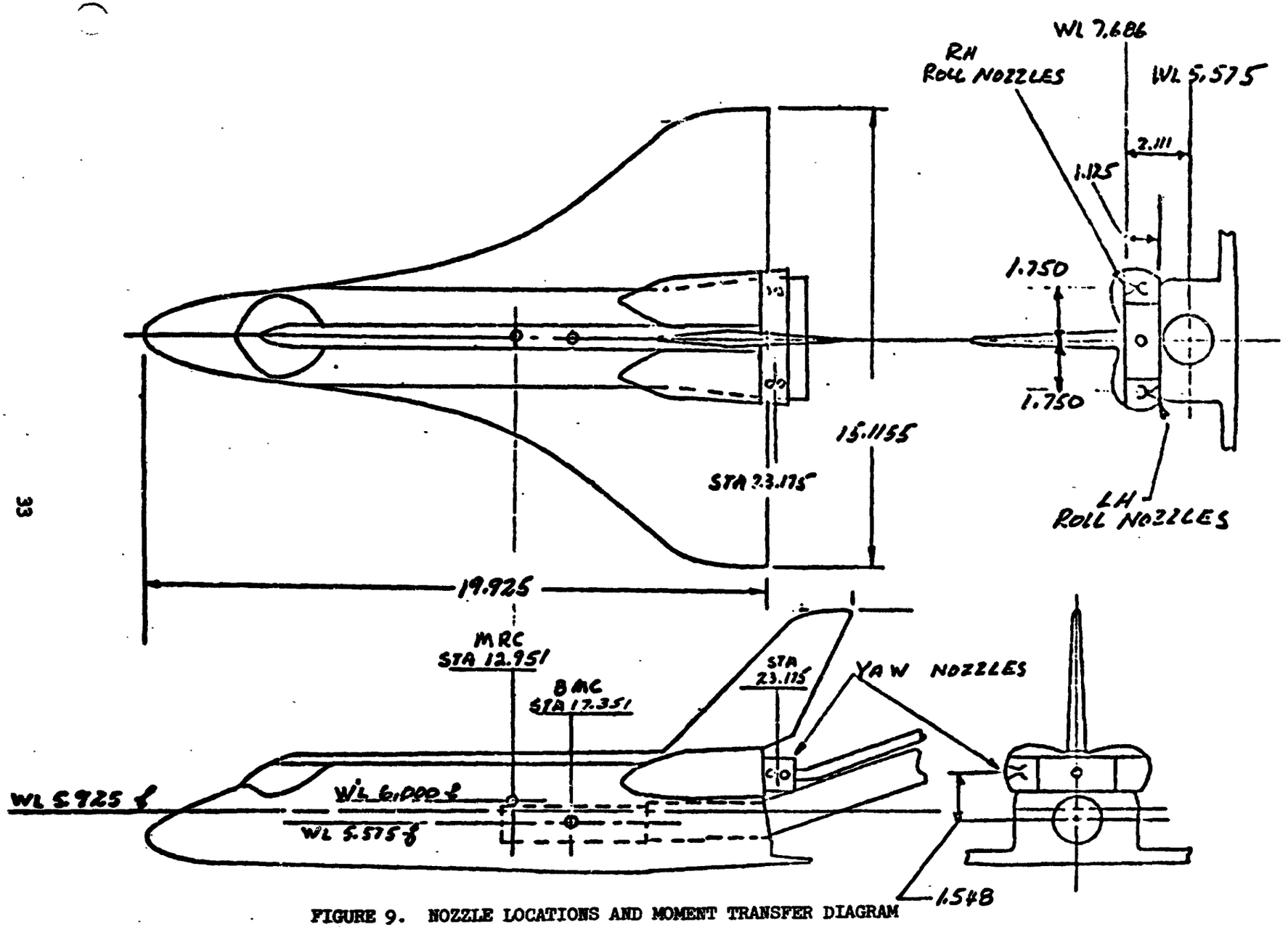


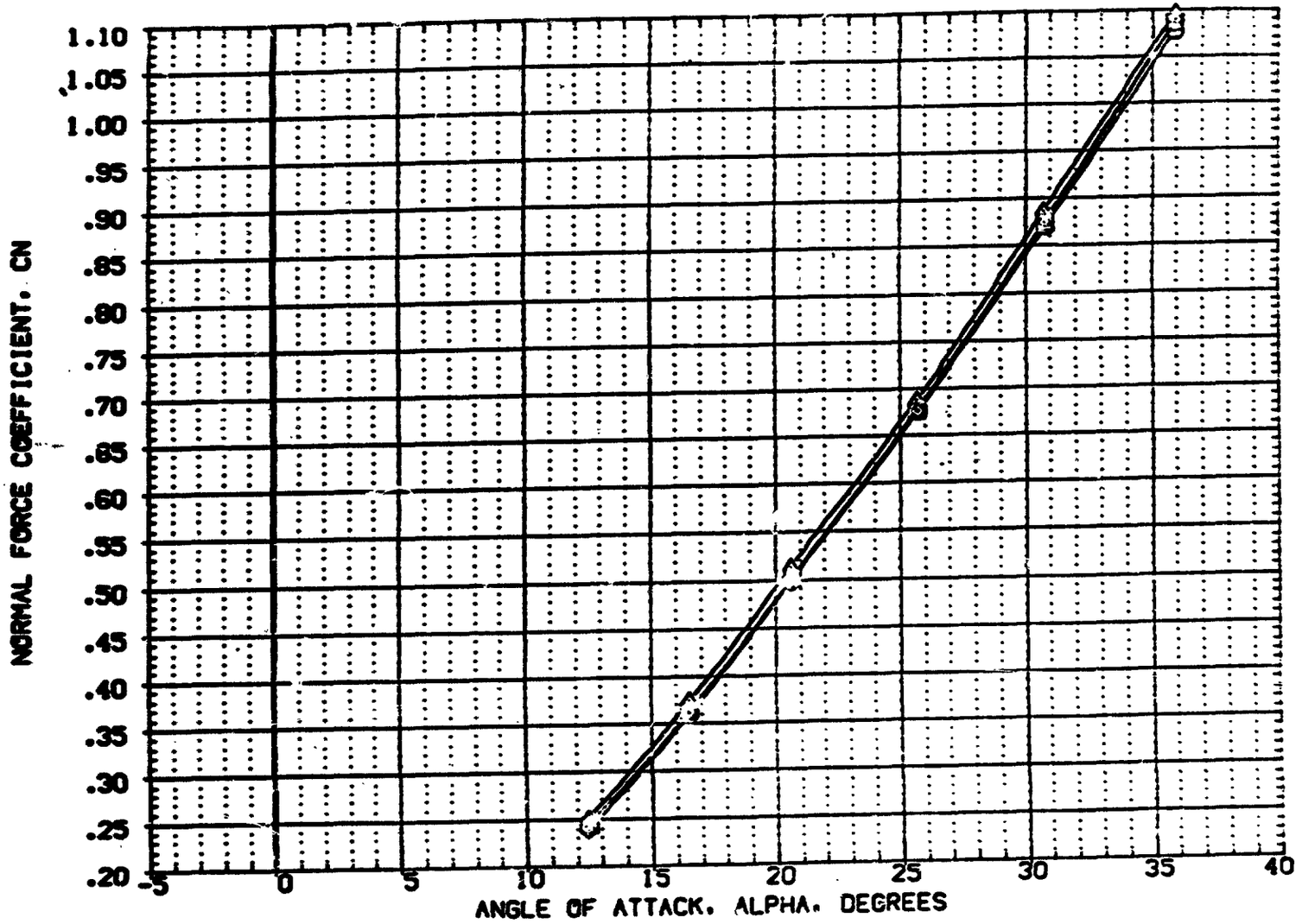
FIGURE 9. NOZZLE LOCATIONS AND MOMENT TRANSFER DIAGRAM

DATA FIGURES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(OH021)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	1.000
(OH040)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	1.000
(OH058)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN10	.000	.000	1.000
(OH070)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



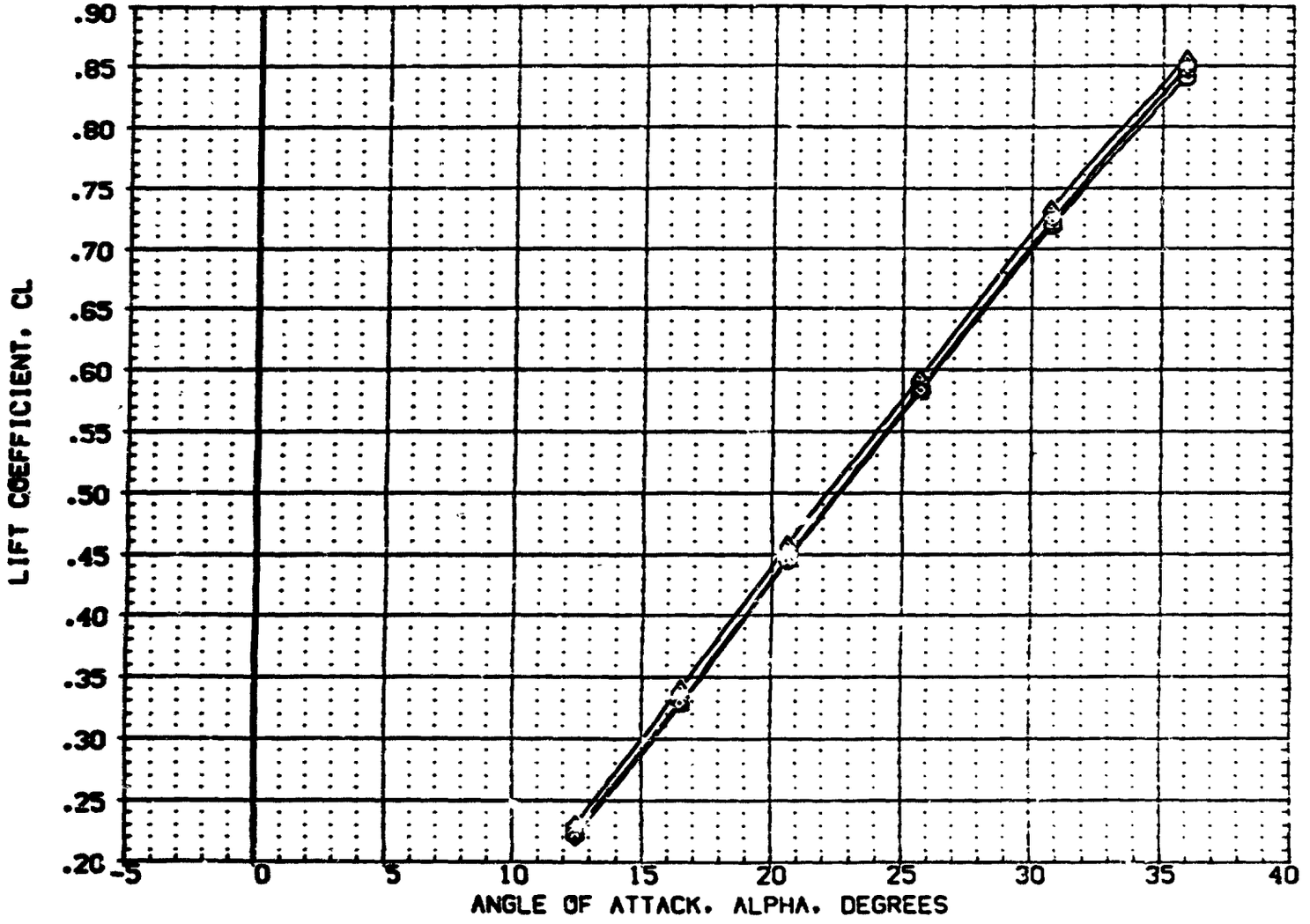
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 1 MILLION)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PS-JET	RN/L
(CPH021)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	.000	.000	1.000
(CPH040)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	.000	1.000
(CPH058)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN40	.000	.000	1.000
(CPH070)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1153	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

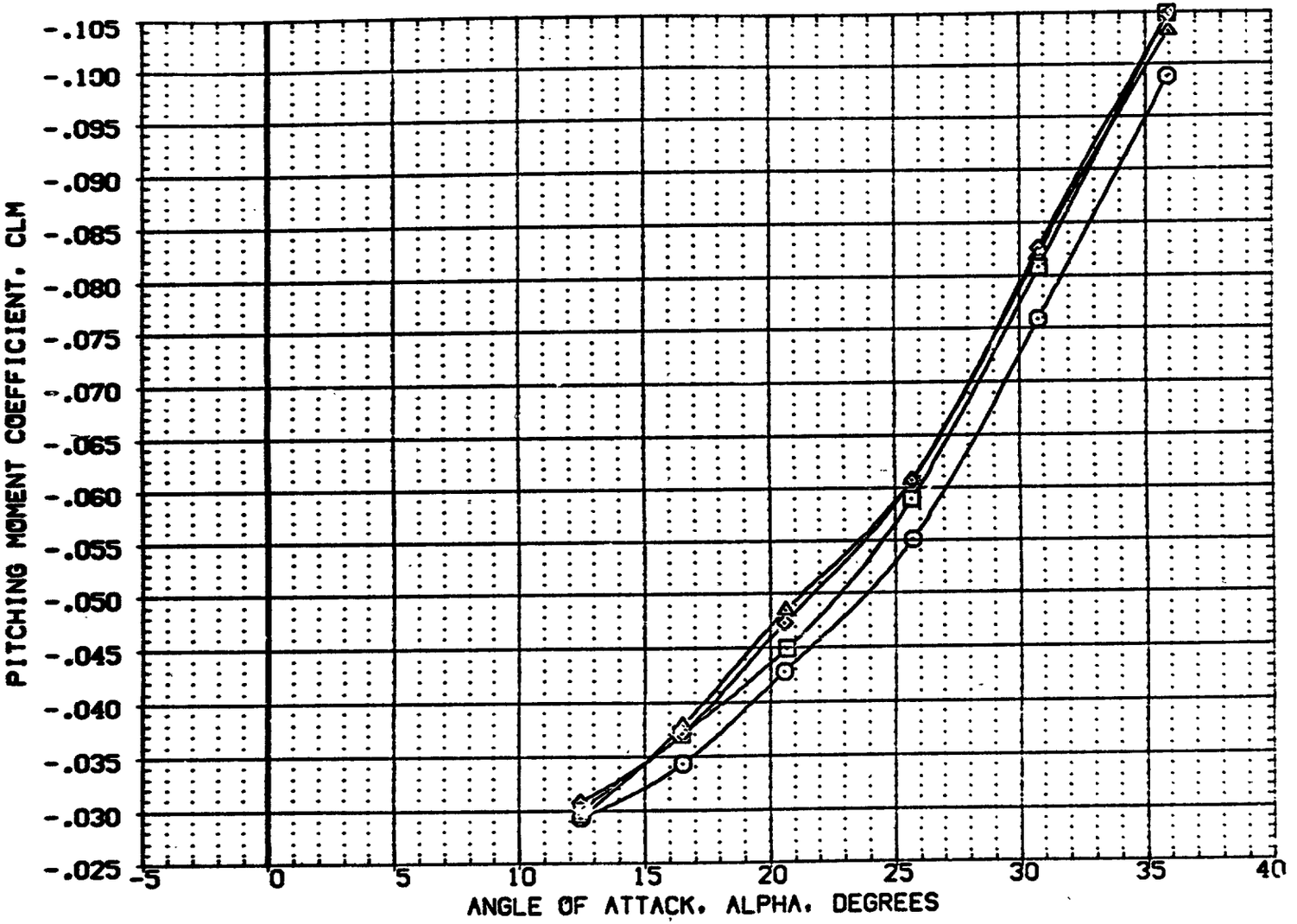


BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 1 MILLION)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021) ○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	.000	.000	1.000
(CPM040) □	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	.000	1.000
(CPM058) ◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN40	.000	.000	1.000
(CPM070) △	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 1 MILLION)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	○	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	1.000
(CPM040)	□	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	1.000
(CPM058)	◇	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	.000	1.000
(CPM070)	△	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
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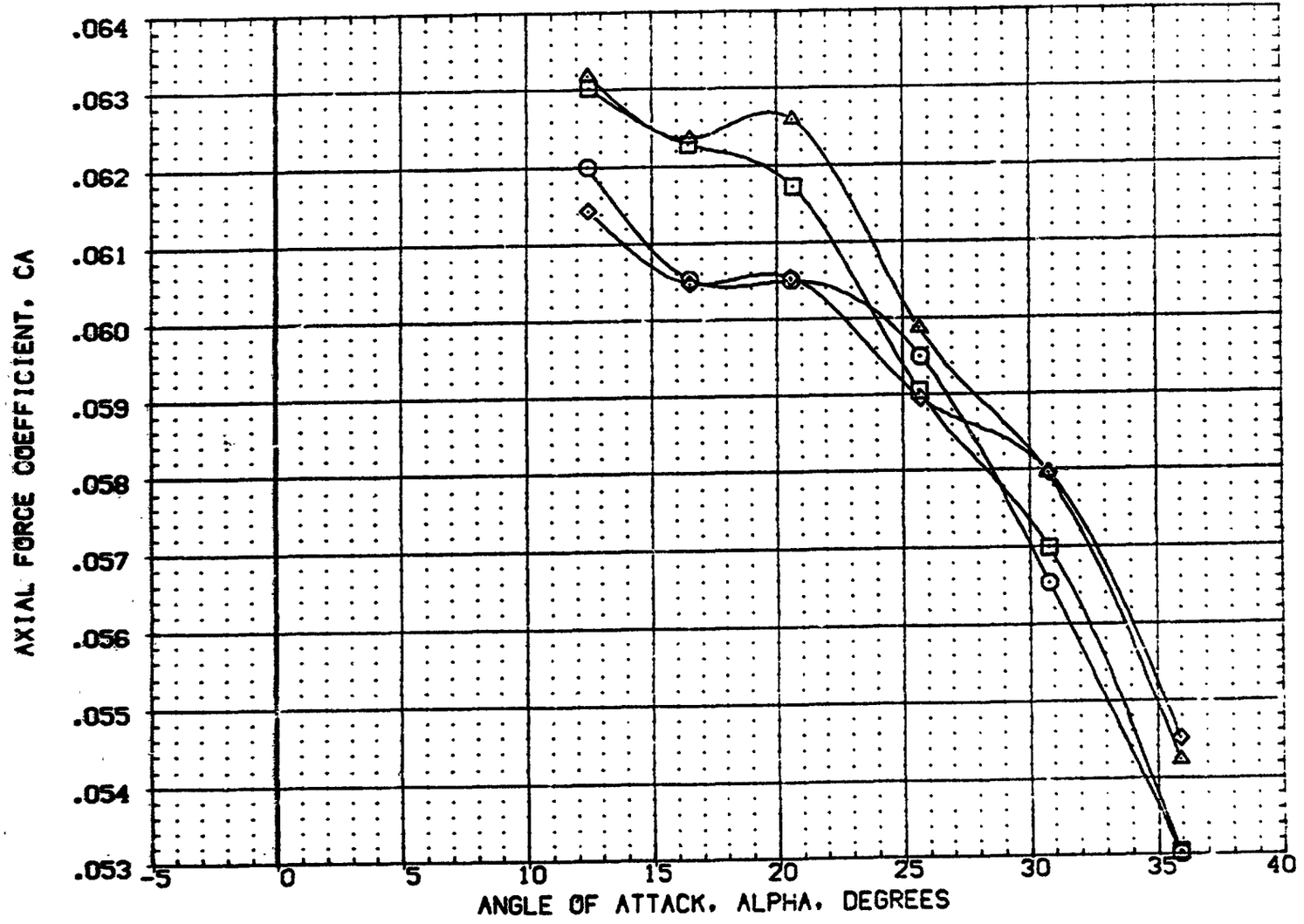

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(A)MACH = 4.00

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(CPM040)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	1.000
(CPM058)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	1.000
(CPM070)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
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YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
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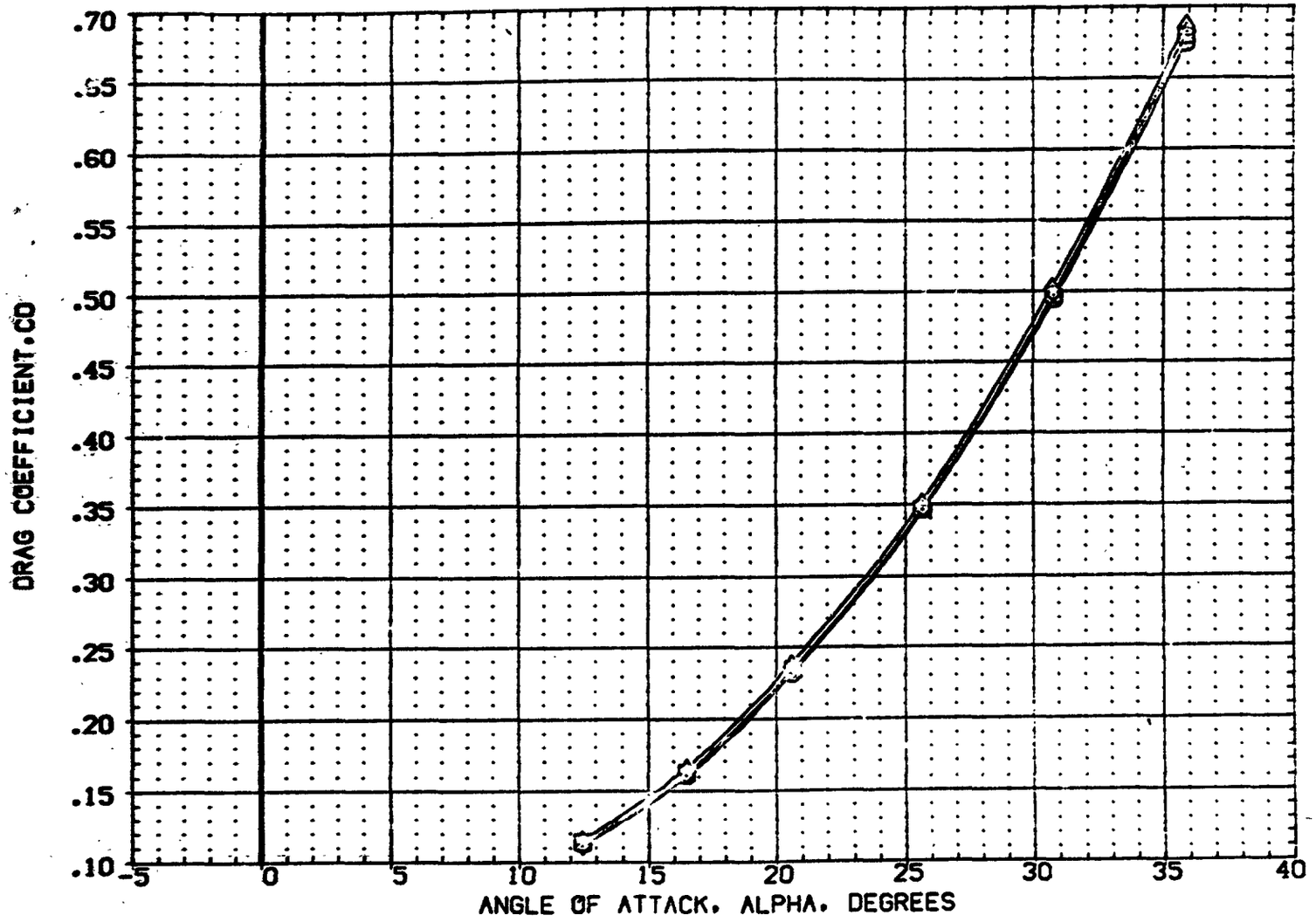

BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 1 MILLION)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
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(CPM040)	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	1.000
(CPM058)	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	1.000
(CPM070)	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000

REFERENCE INFORMATION

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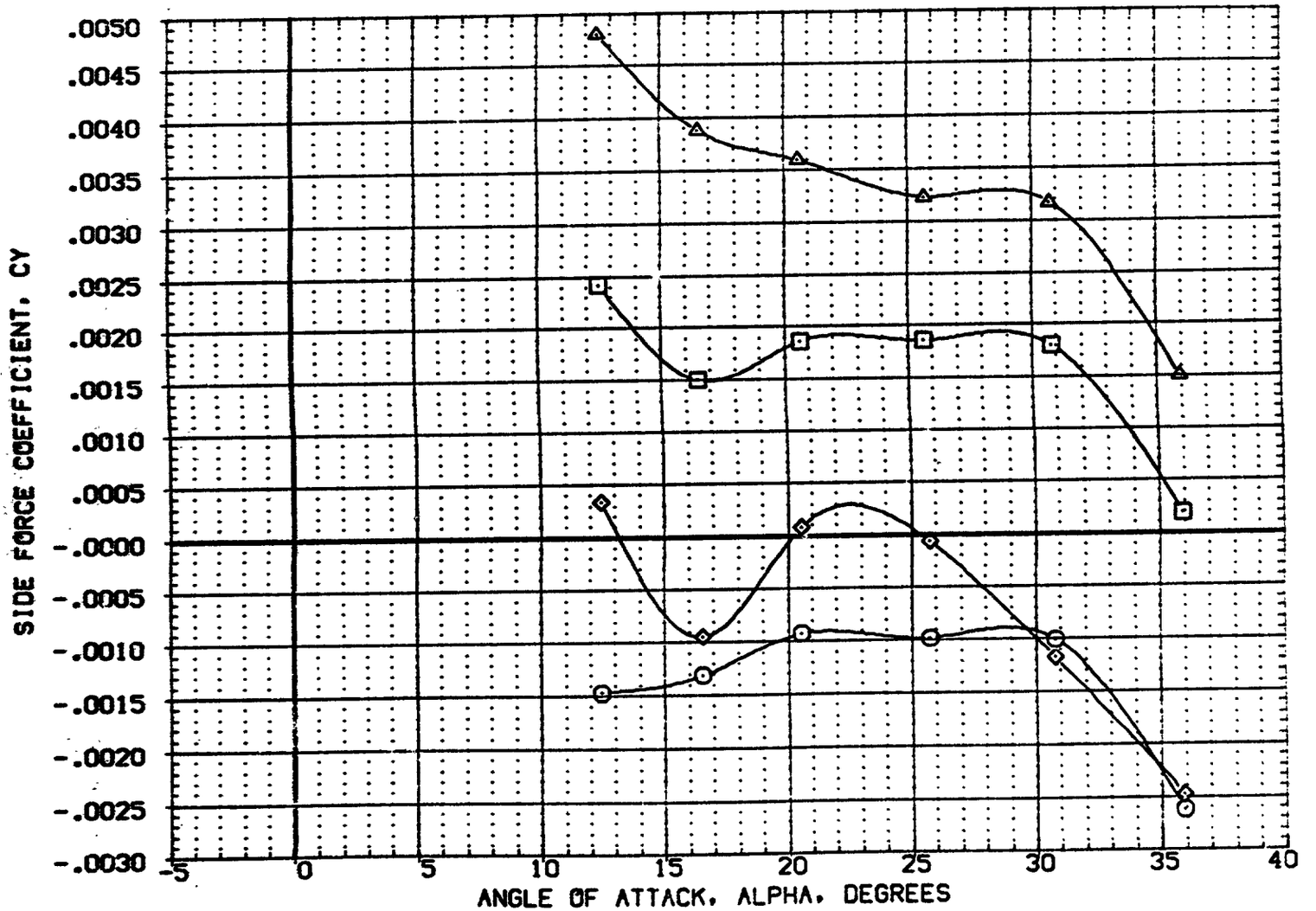

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(CPM040)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	1.000
(CPM058)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	1.000
(CPM070)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000

REFERENCE INFORMATION

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LREF	7.8828	INCHES
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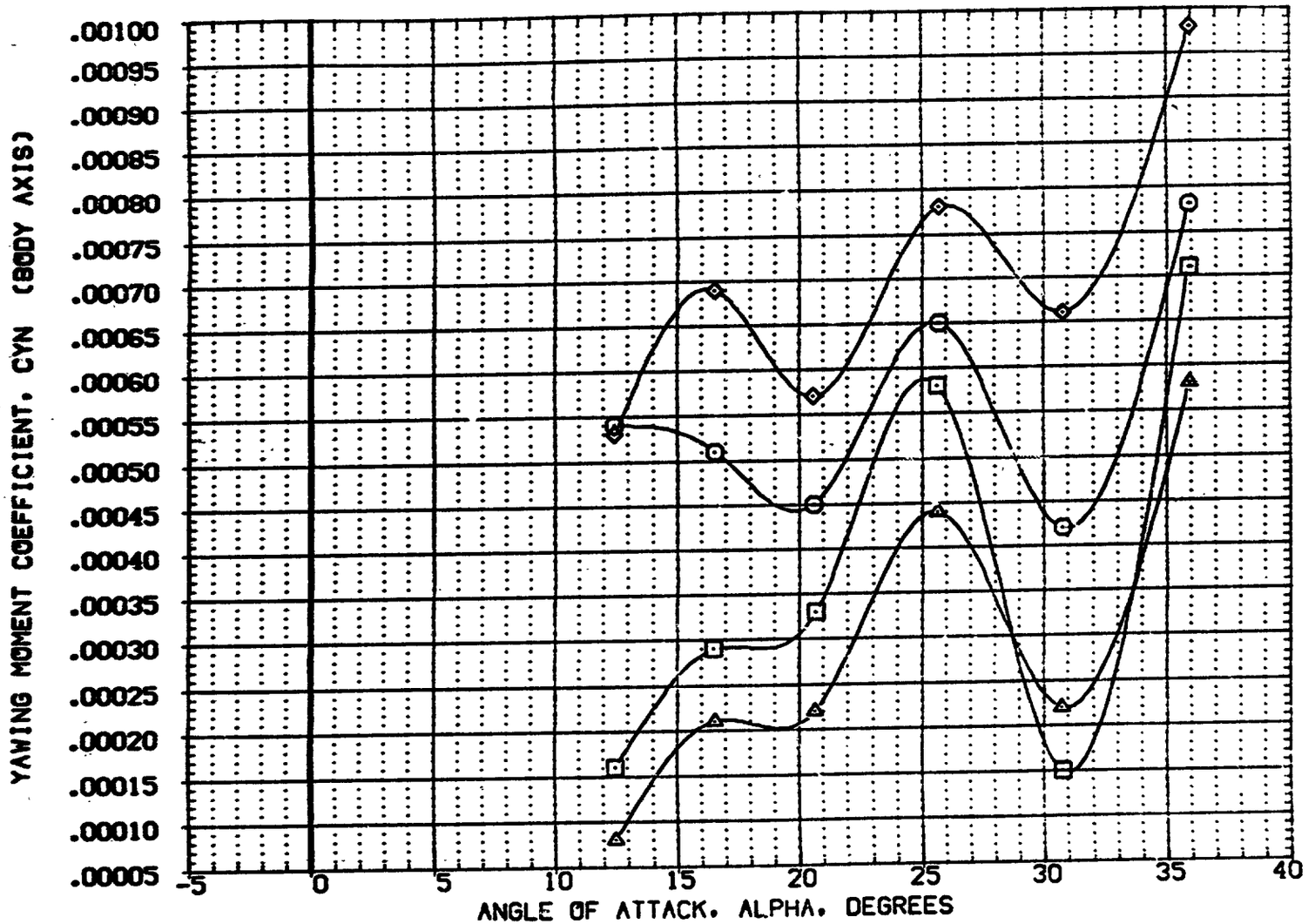

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(A)MACH = 4.00

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(CPM040)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	1.000
(CPM058)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	1.000
(CPM070)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000

REFERENCE INFORMATION

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YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
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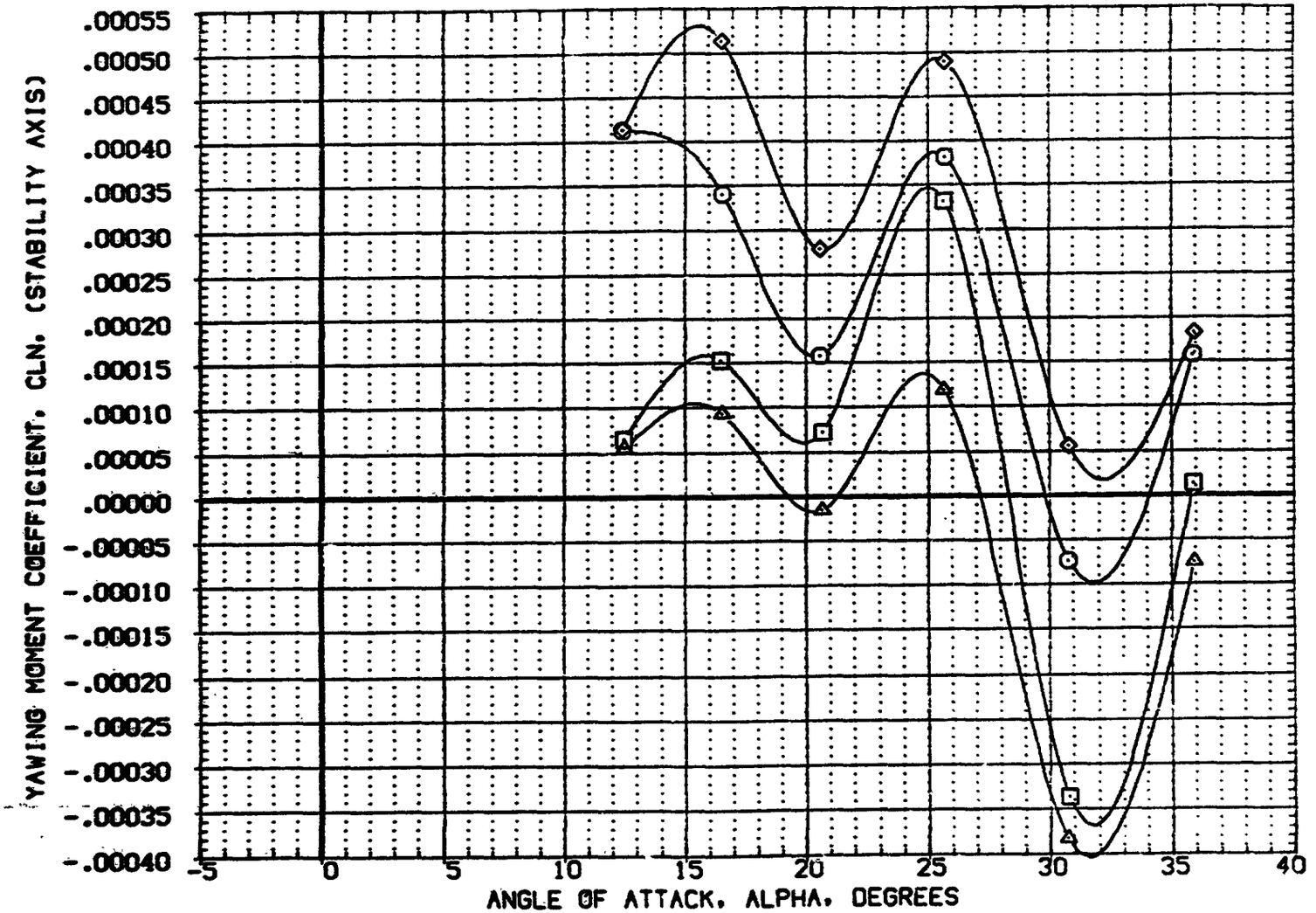

BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 1 MILLION)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM021) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	1.000
(CPM040) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	1.000
(CPM058) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	1.000
(CPM070) △	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000

REFERENCE INFORMATION

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YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
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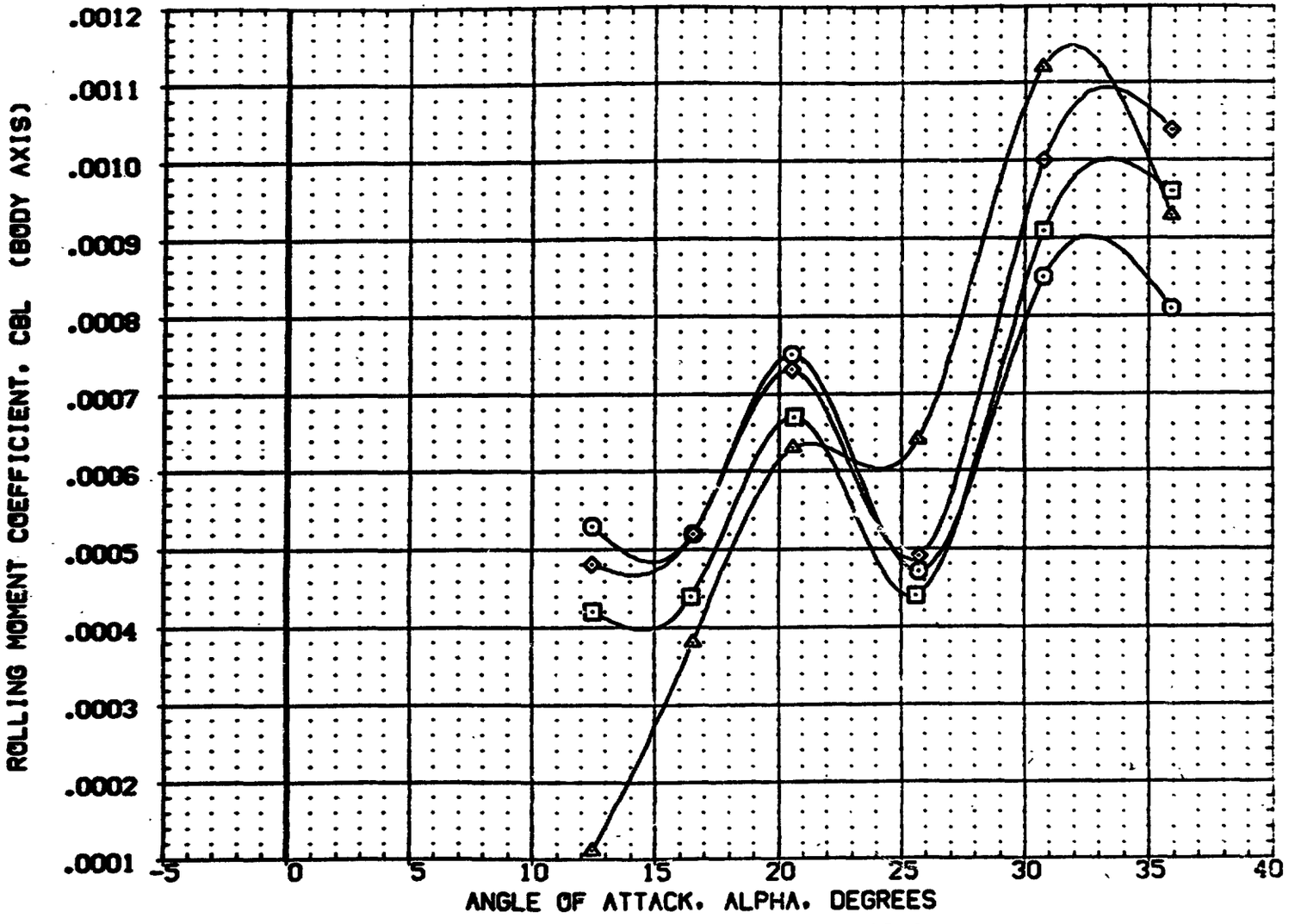


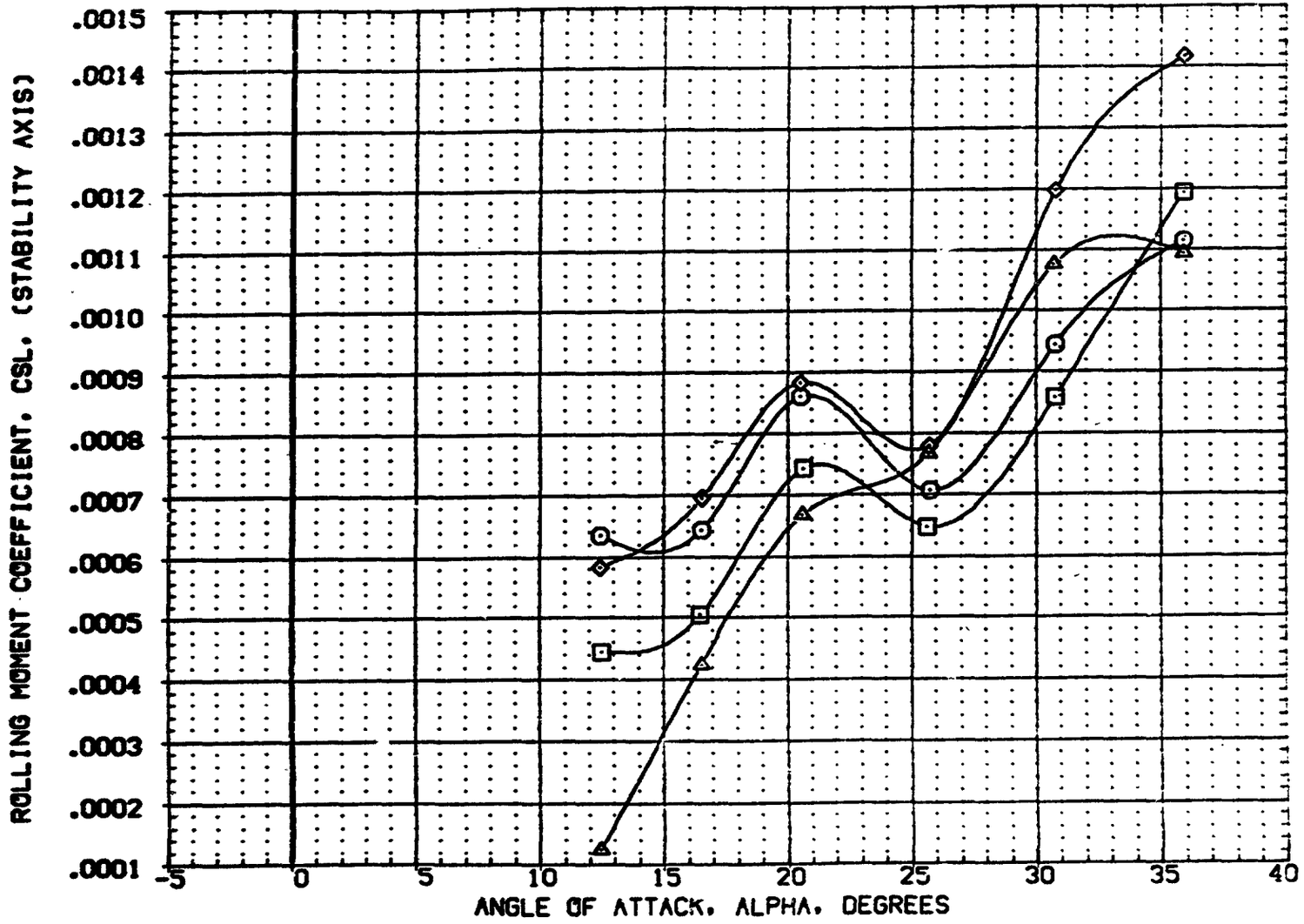
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 1 MILLION)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM021)	□	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	1.000
(CPM040)	◇	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	1.000
(CPM058)	⊠	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	1.000
(CPM070)	△	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 1 MILLION)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPH016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPH036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPH055)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPH067)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
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BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
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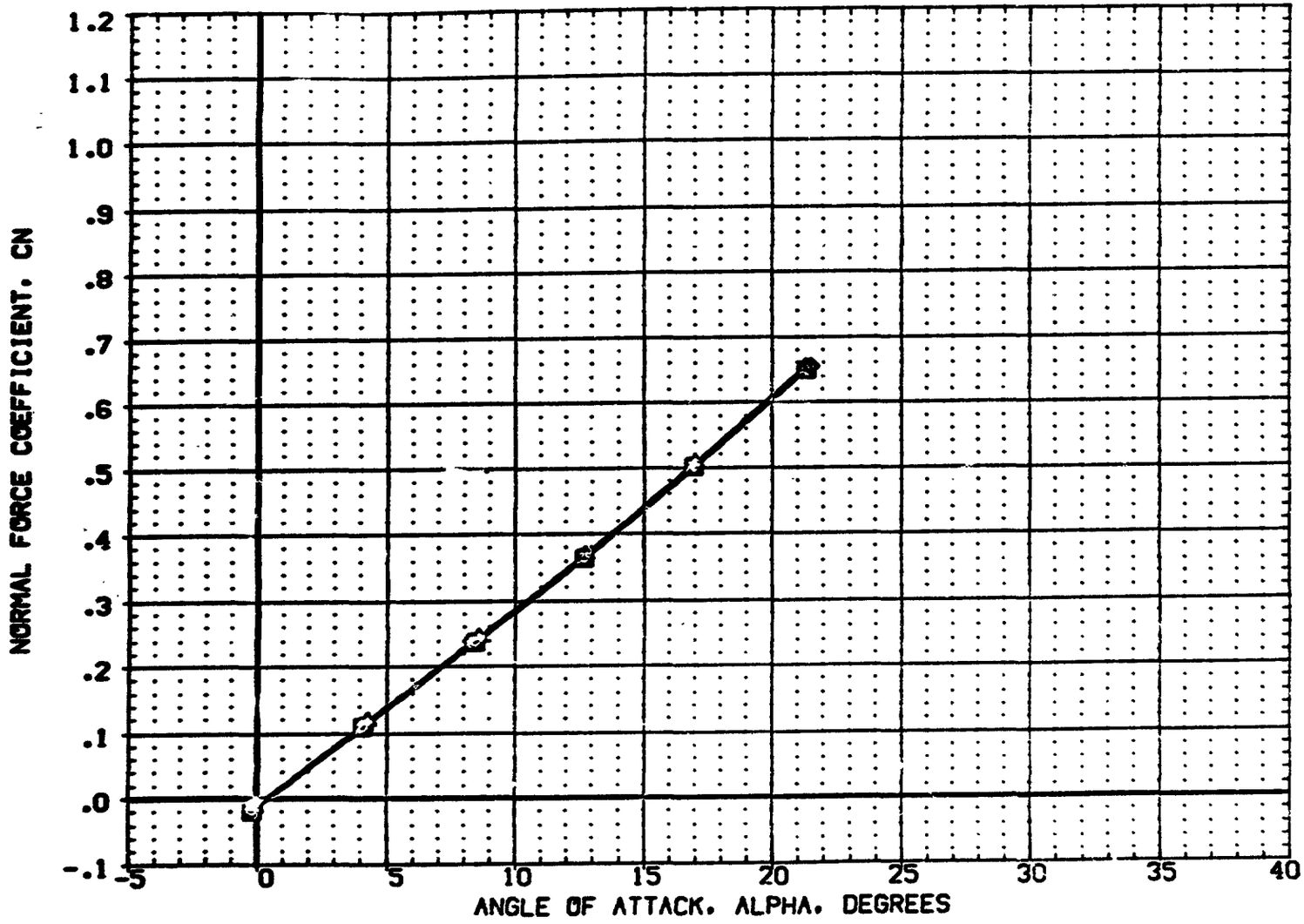


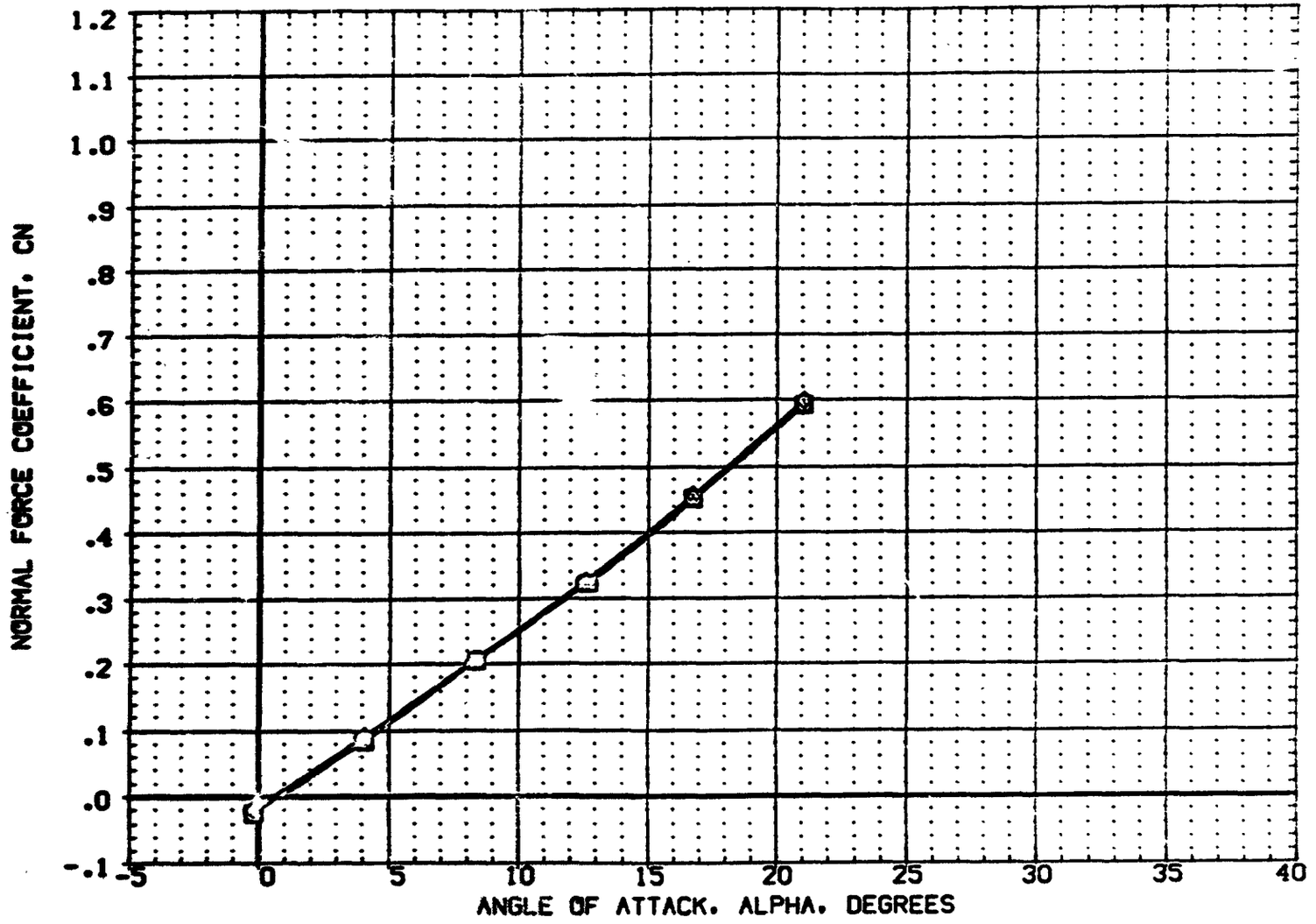
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(A)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPM065)	⋈	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPM067)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(B)MACH = 2.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	3.000
(BPM055)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	.000	3.000
(BPM057)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
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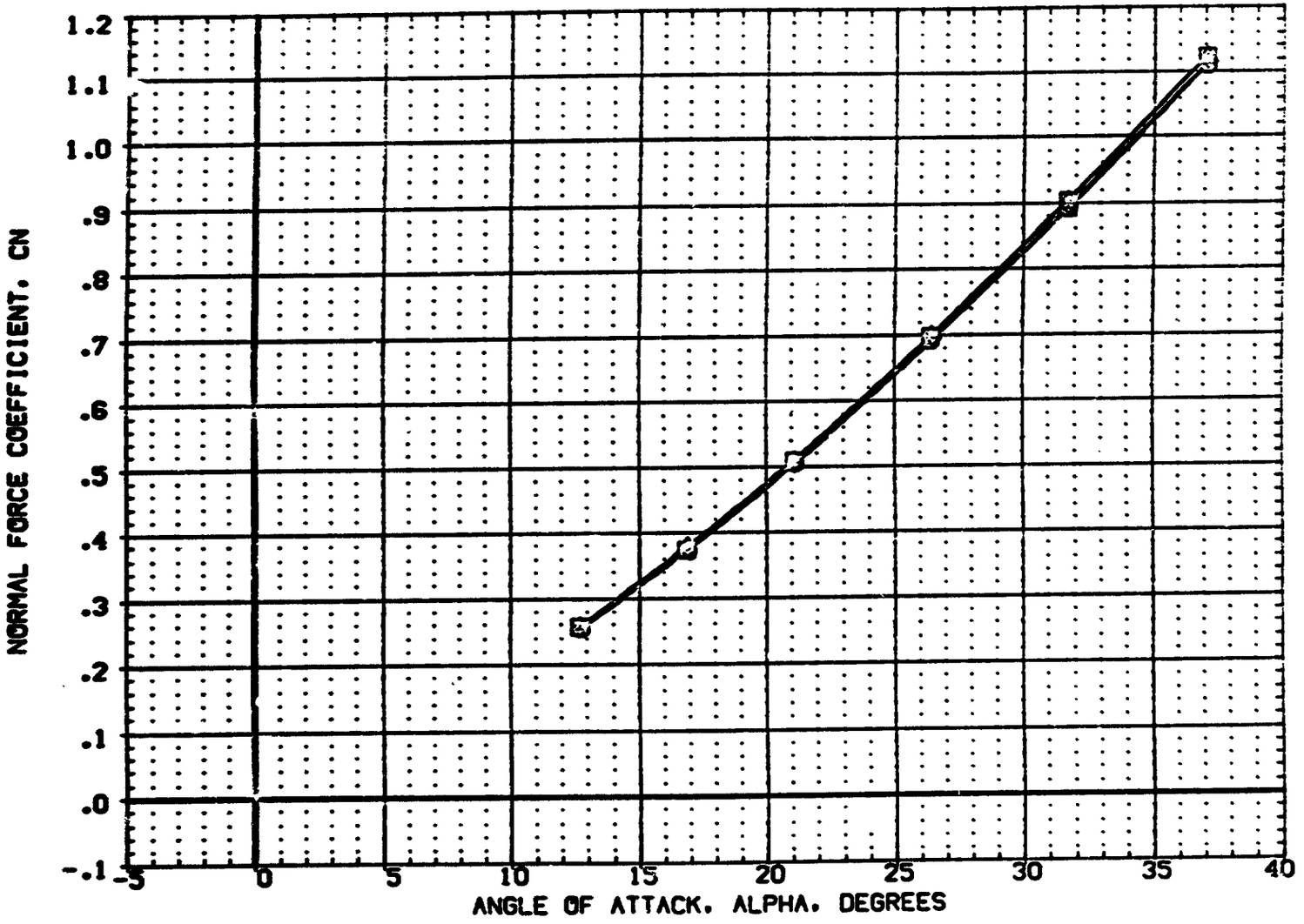


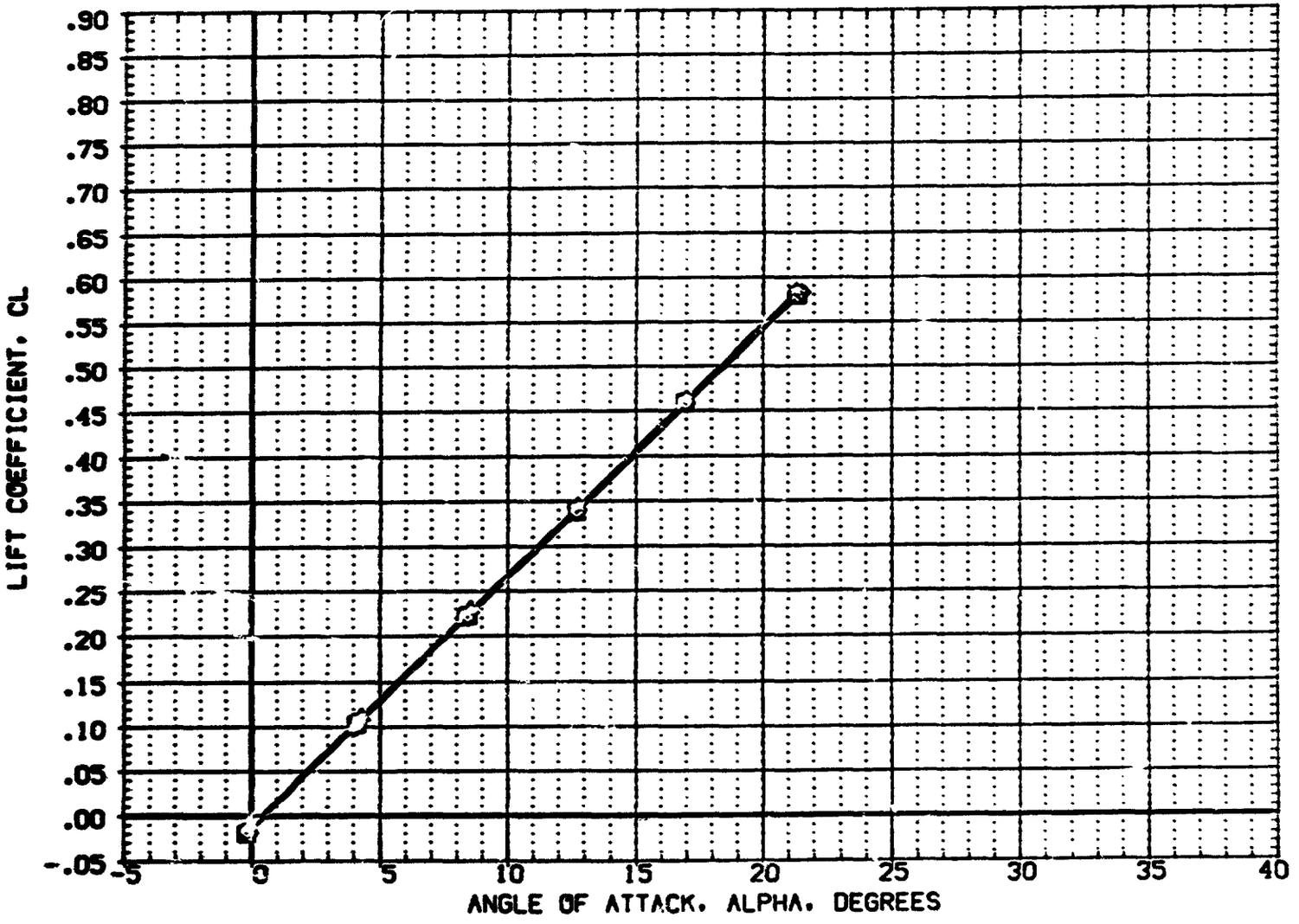
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(C)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPH016)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPH035)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPH055)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPH067)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



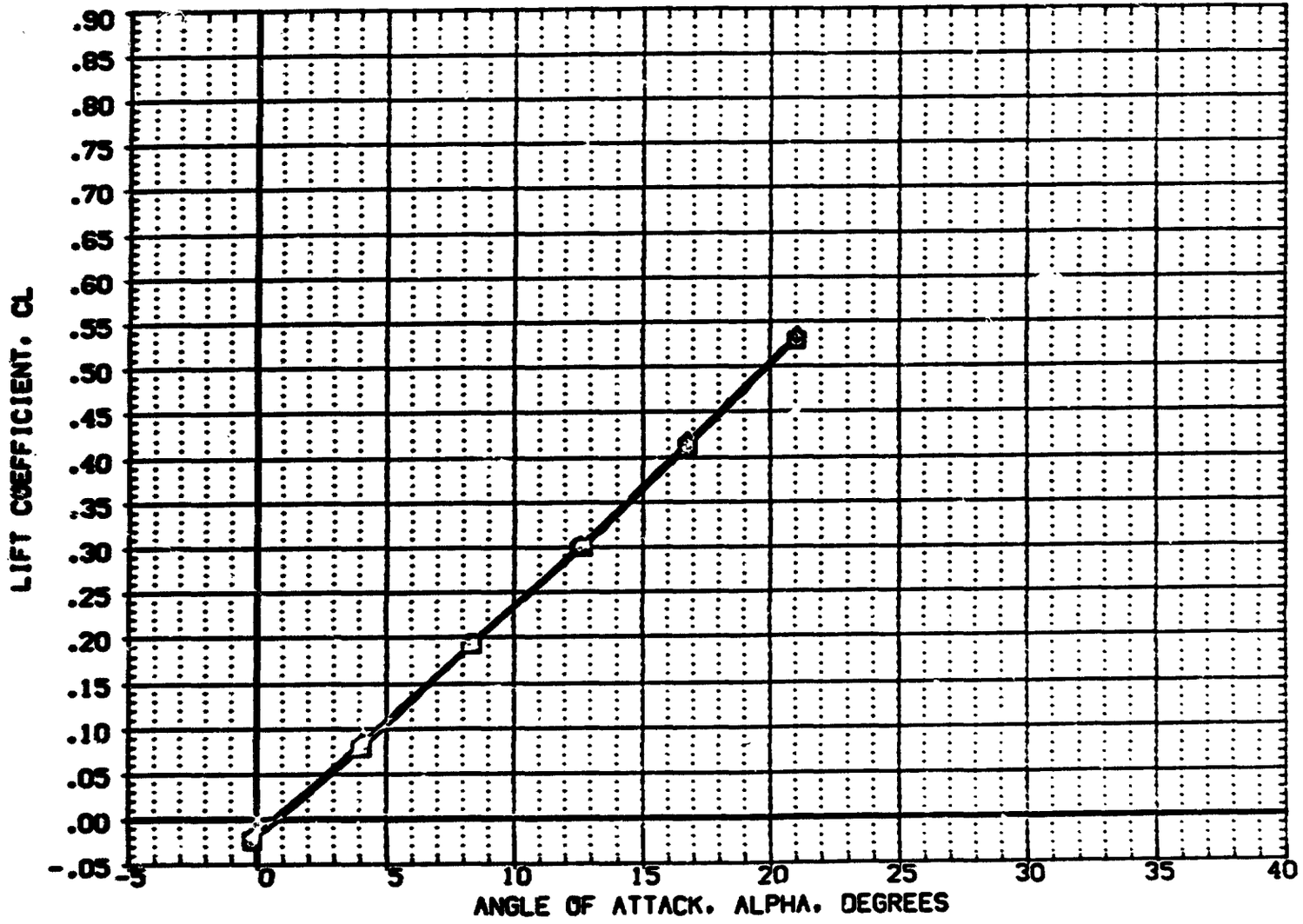
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(A)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPH016)	○	HA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPH036)	□	HA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPH055)	◇	HA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPH057)	△	HA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

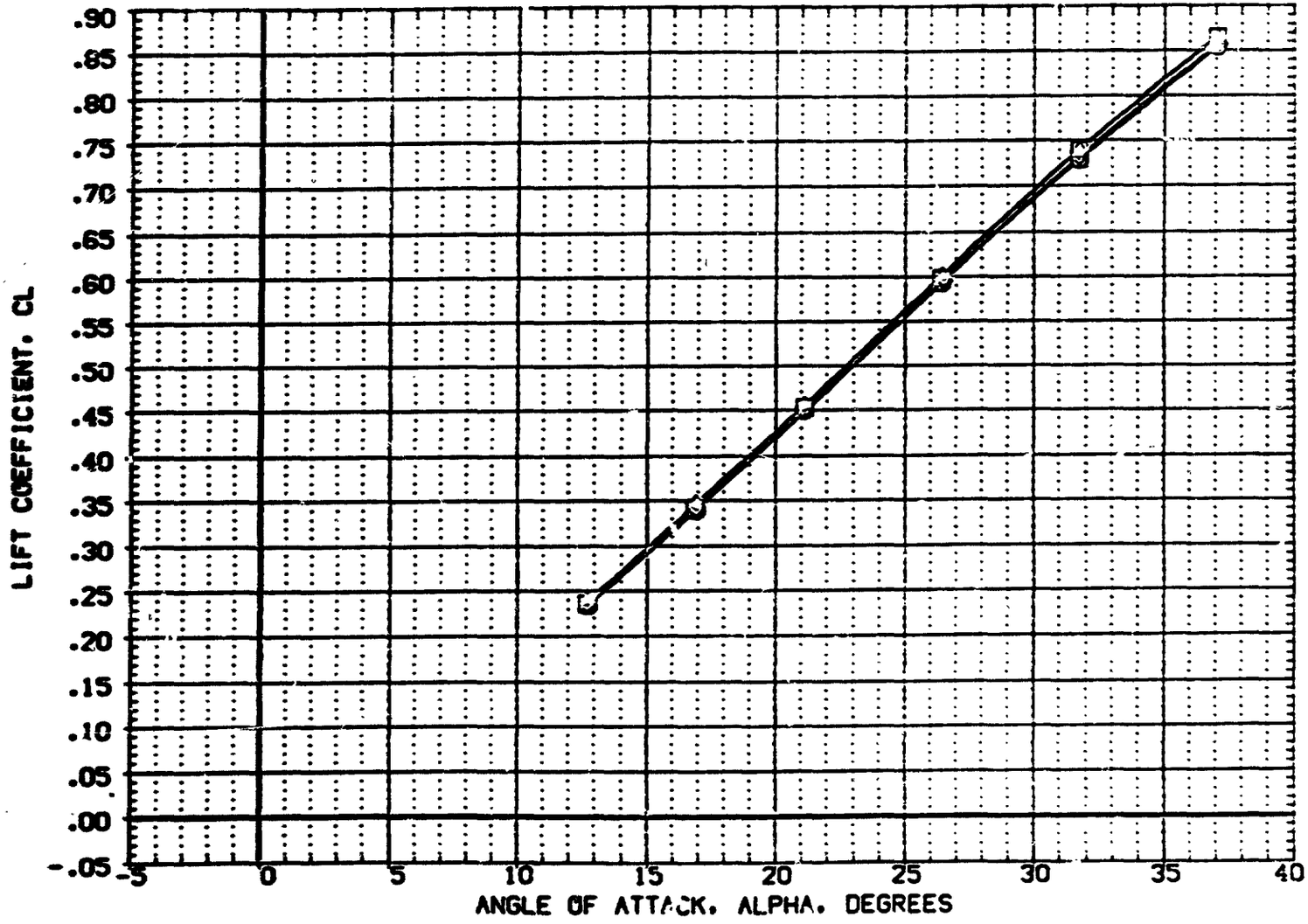


BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(B)MACH = 2.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. 3VTN4	.000	.000	3.000
(BPM025)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	.000	3.000
(BPM057)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	.000	3.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



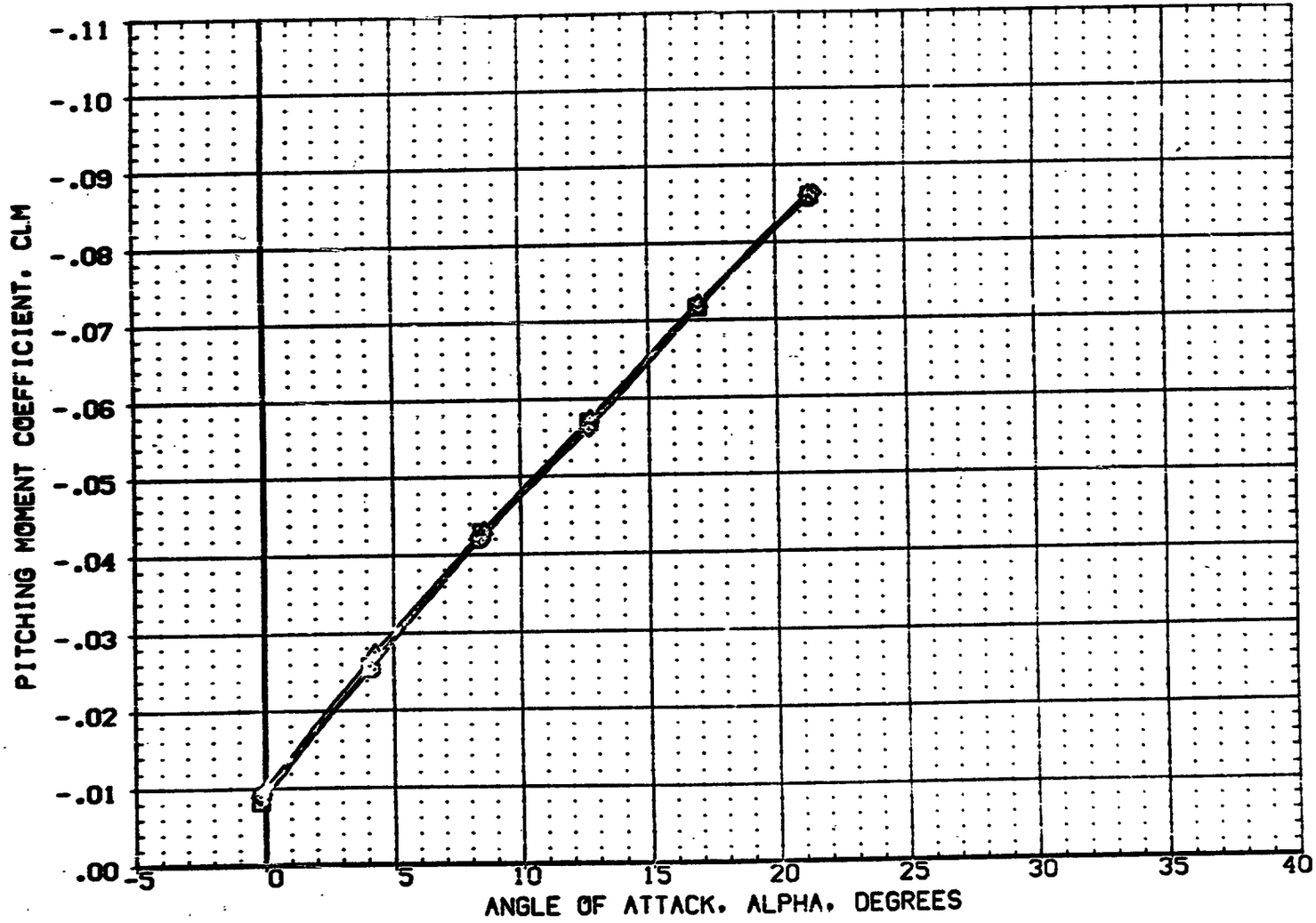
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(C)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	.000	3.000
(BPM067)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



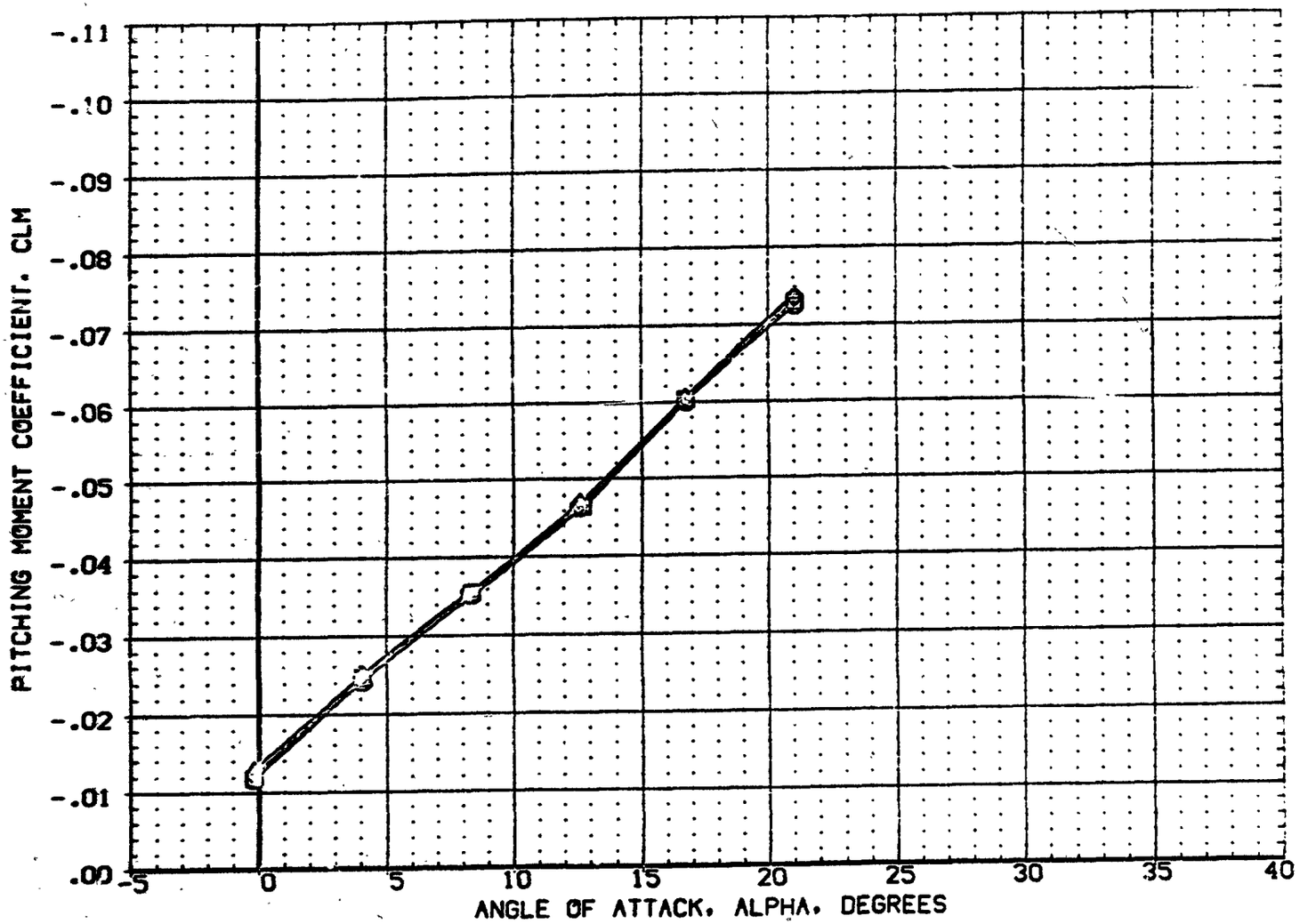
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(A)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPM067)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
CREF	7.8826	
BREF	15.1152	
XMRP	12.9510	
YMRP	.0000	
ZMRP	6.0000	
SCALE	.0150	

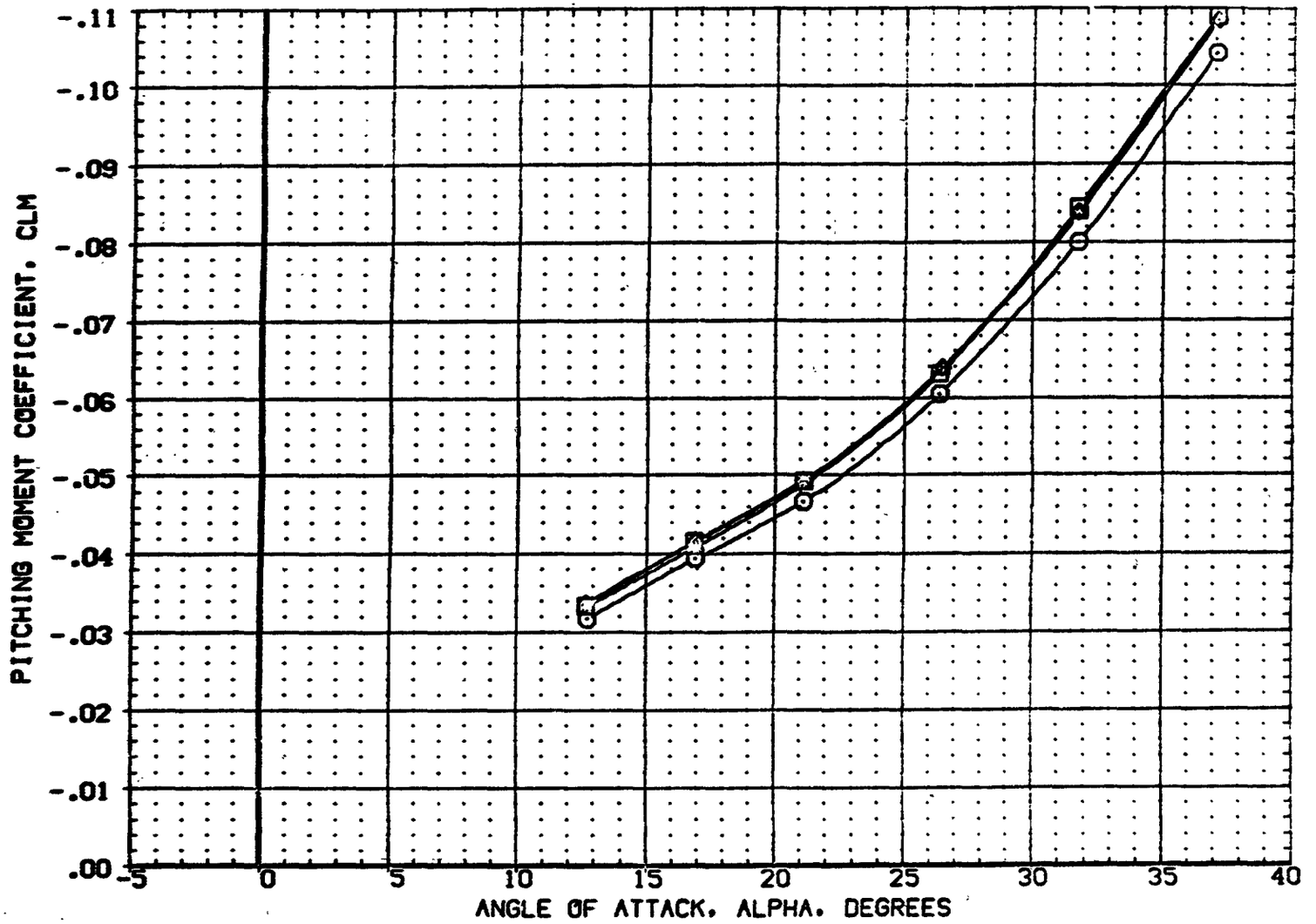


BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(B)MACH = 2.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPM067)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8820	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



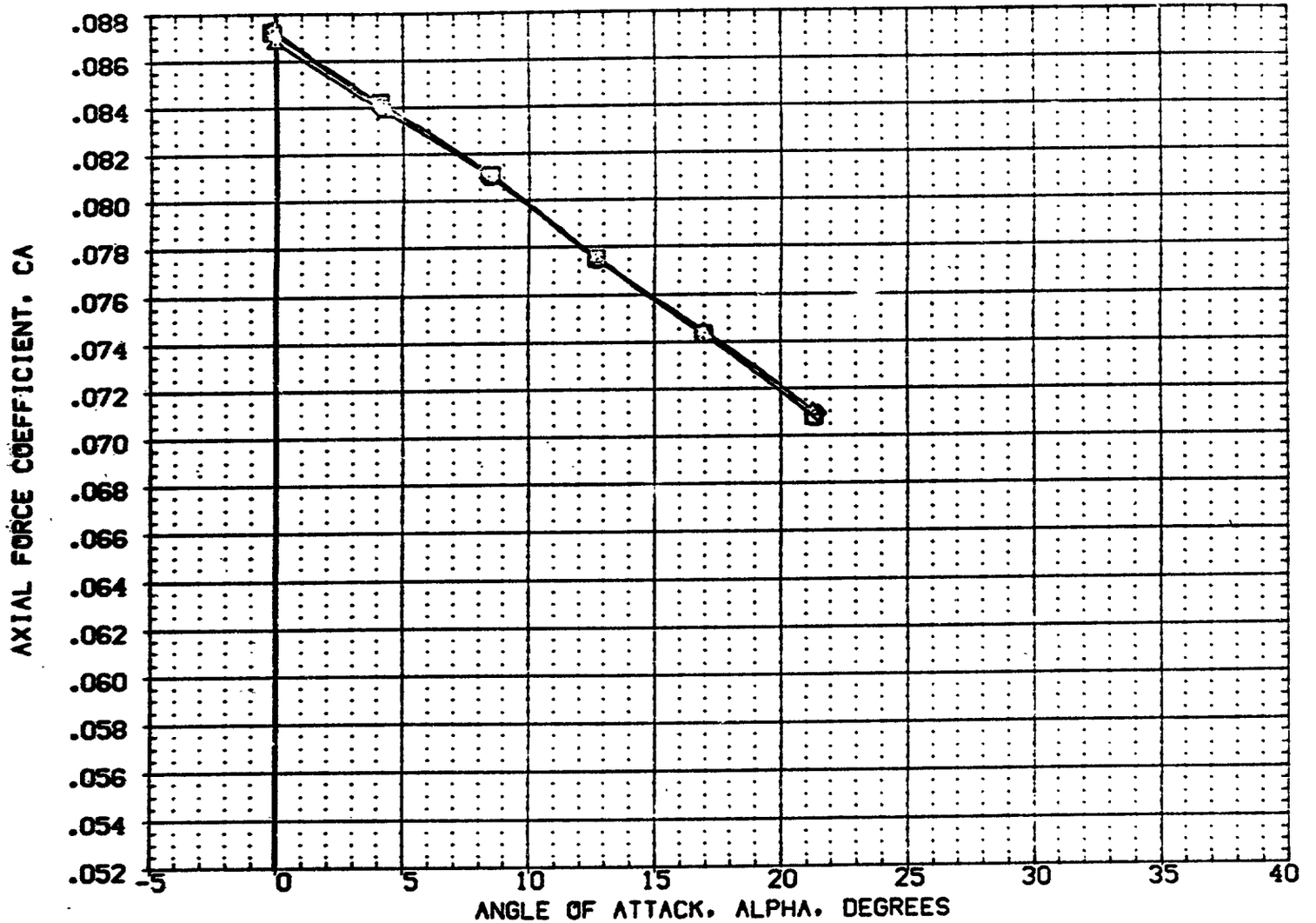
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(C)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	.000	3.000
(BPM055)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN40	.000	.000	3.000
(BPM067)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



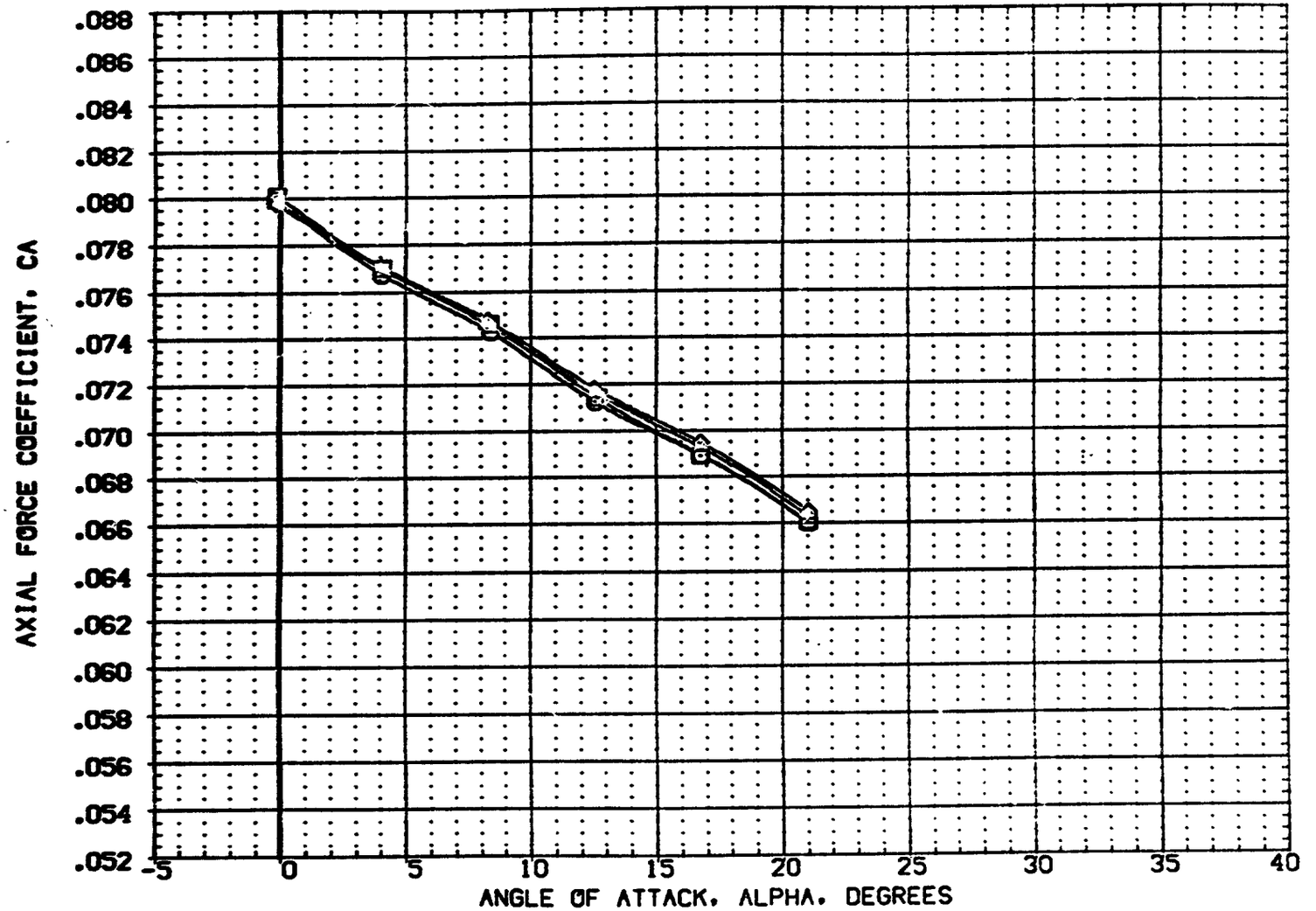
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(A)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	.000	3.000
(BPM067)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



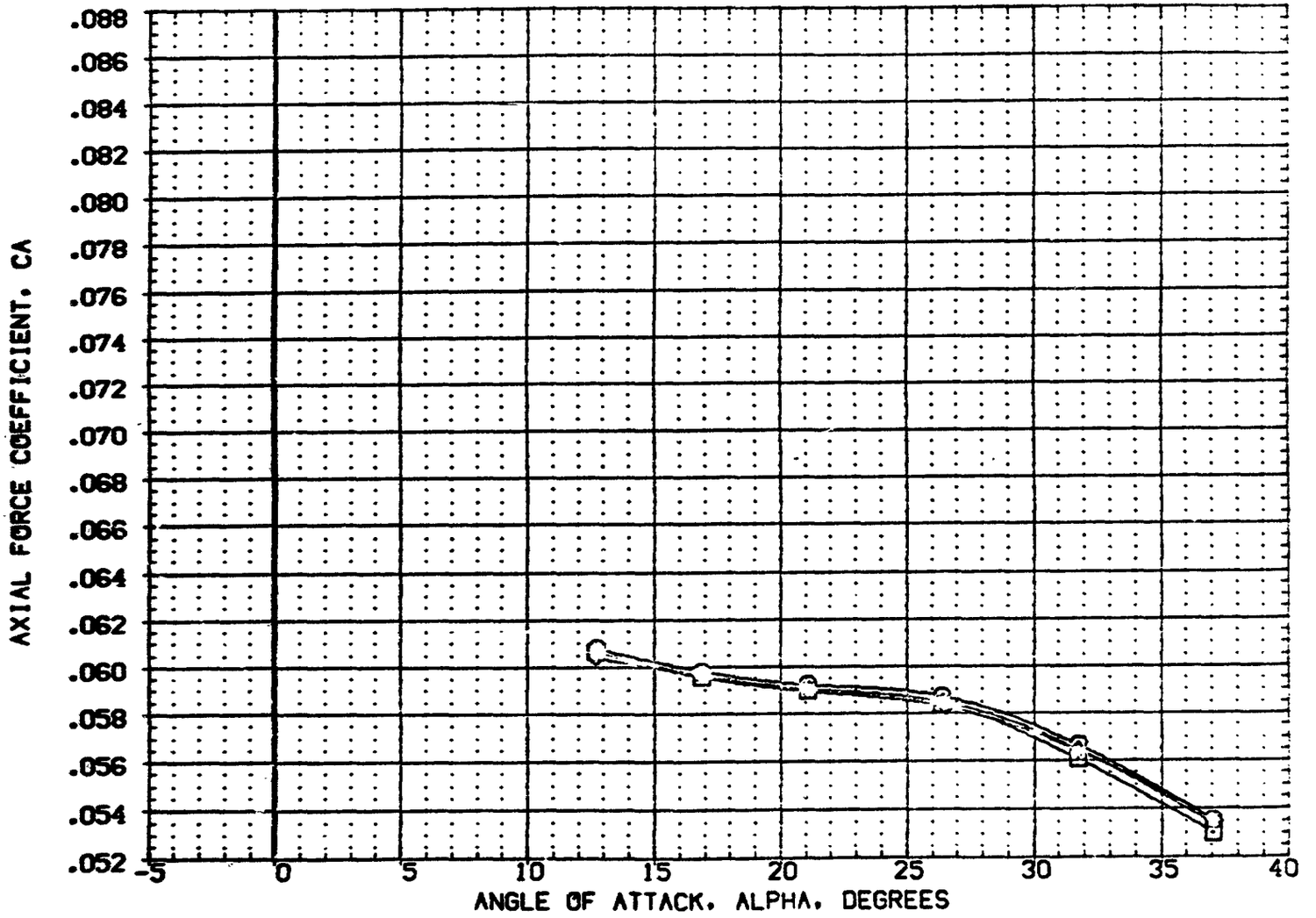
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(B)MACH = 2.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPM067)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



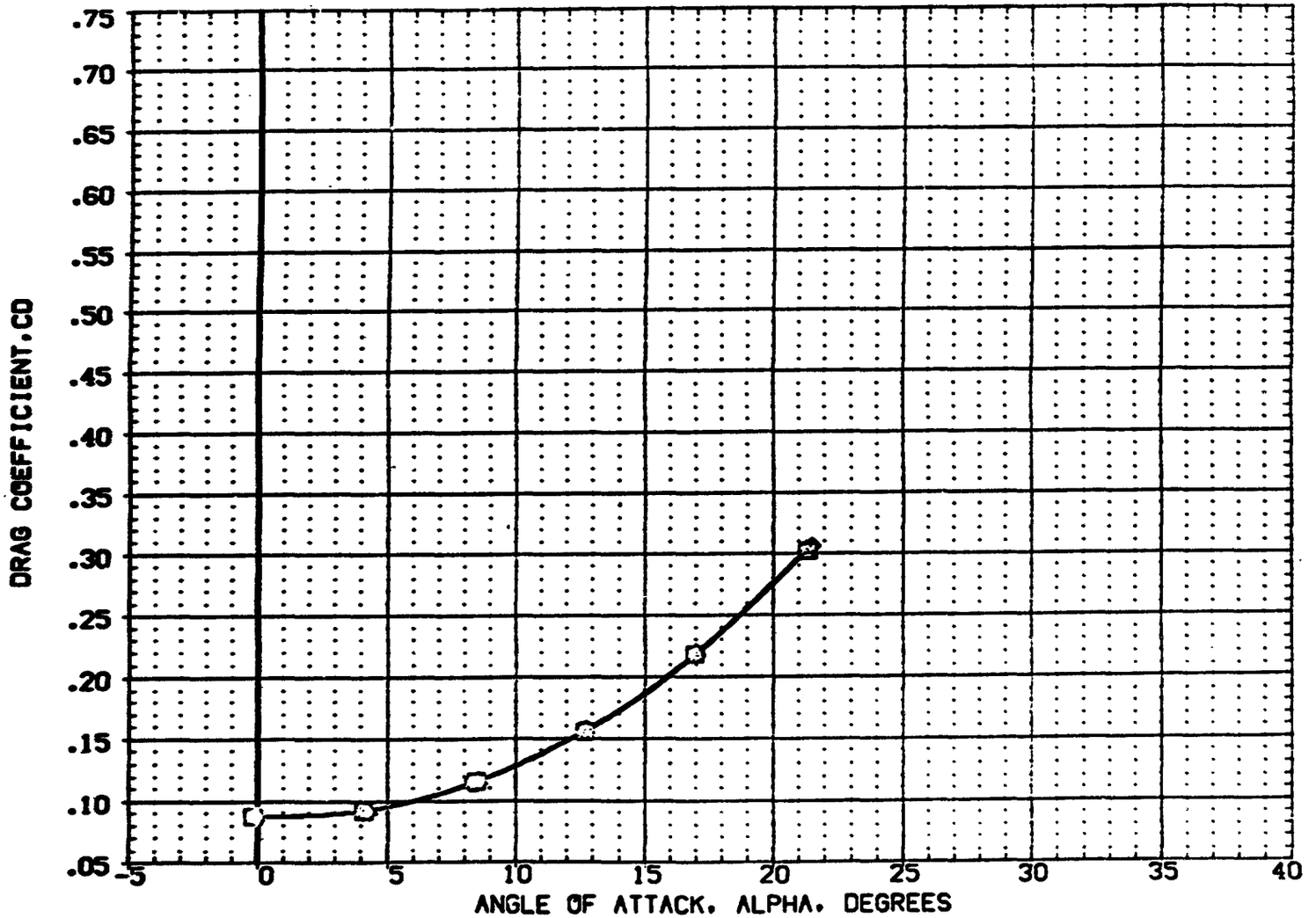
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(C)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	.000	3.000
(BPM056)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN40	.000	.000	3.000
(BPM067)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

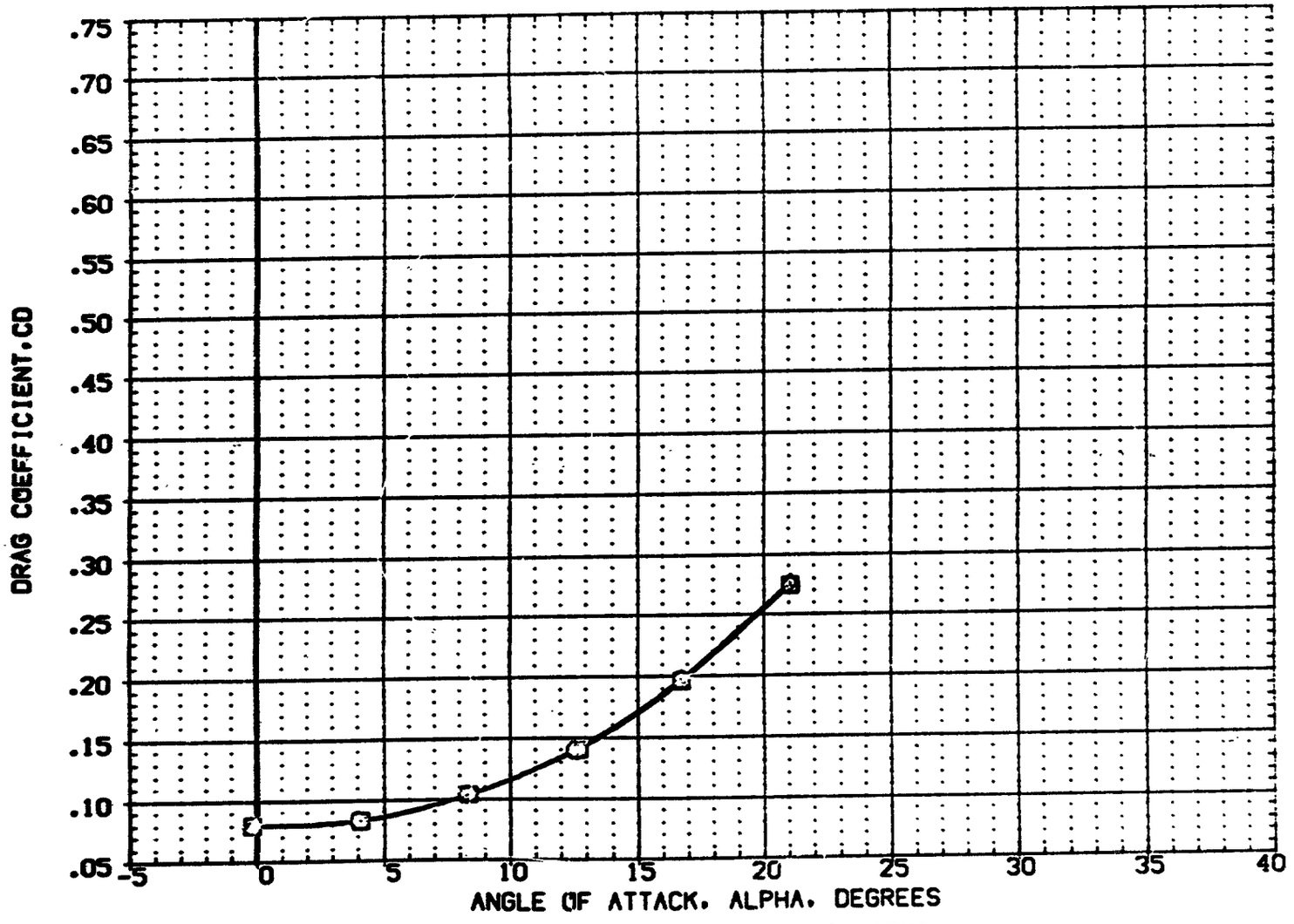


BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(A)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	○	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	◇	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPM067)	△	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



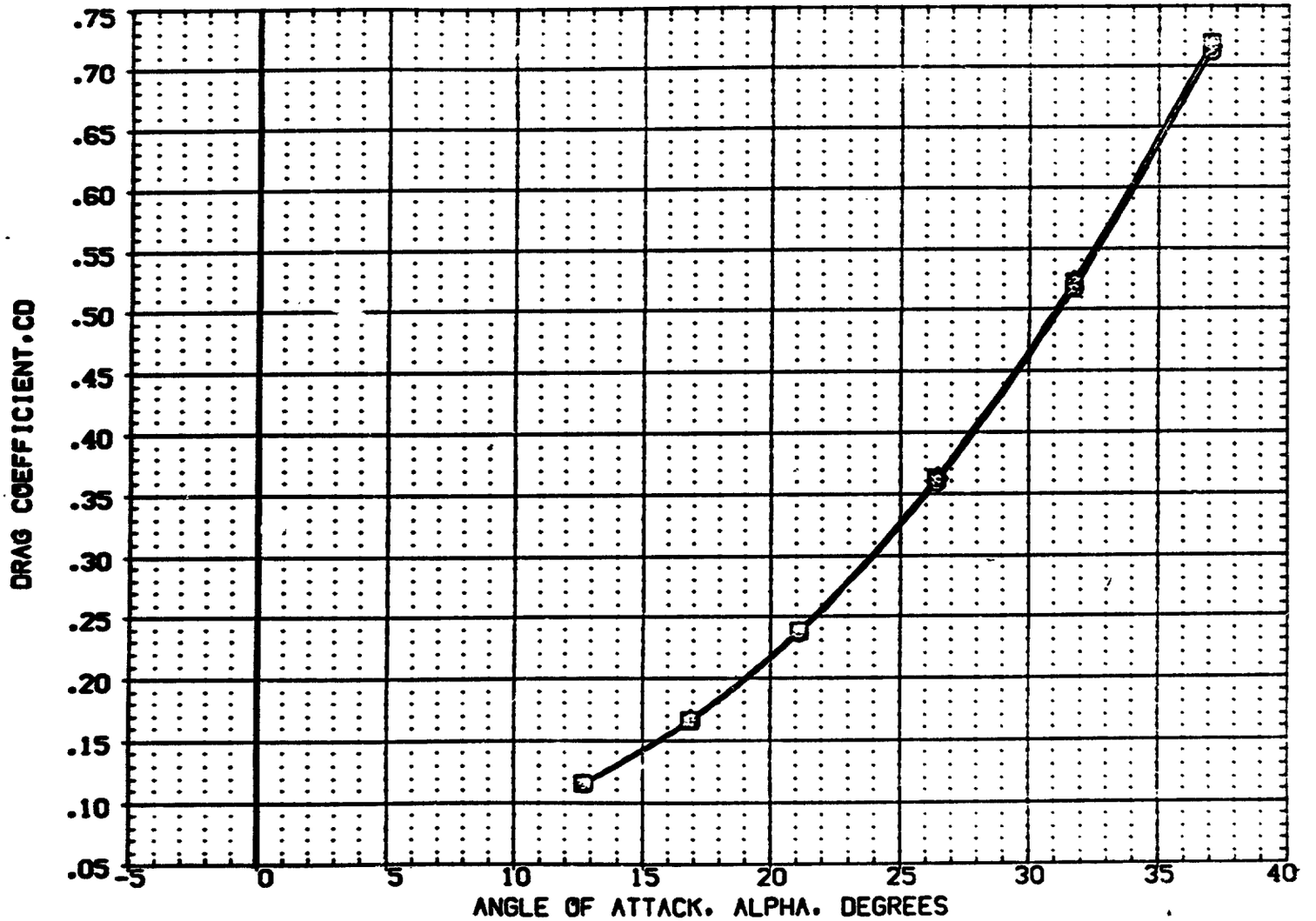
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(B)MACH = 2.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPH016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPH036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPH055)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPH067)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



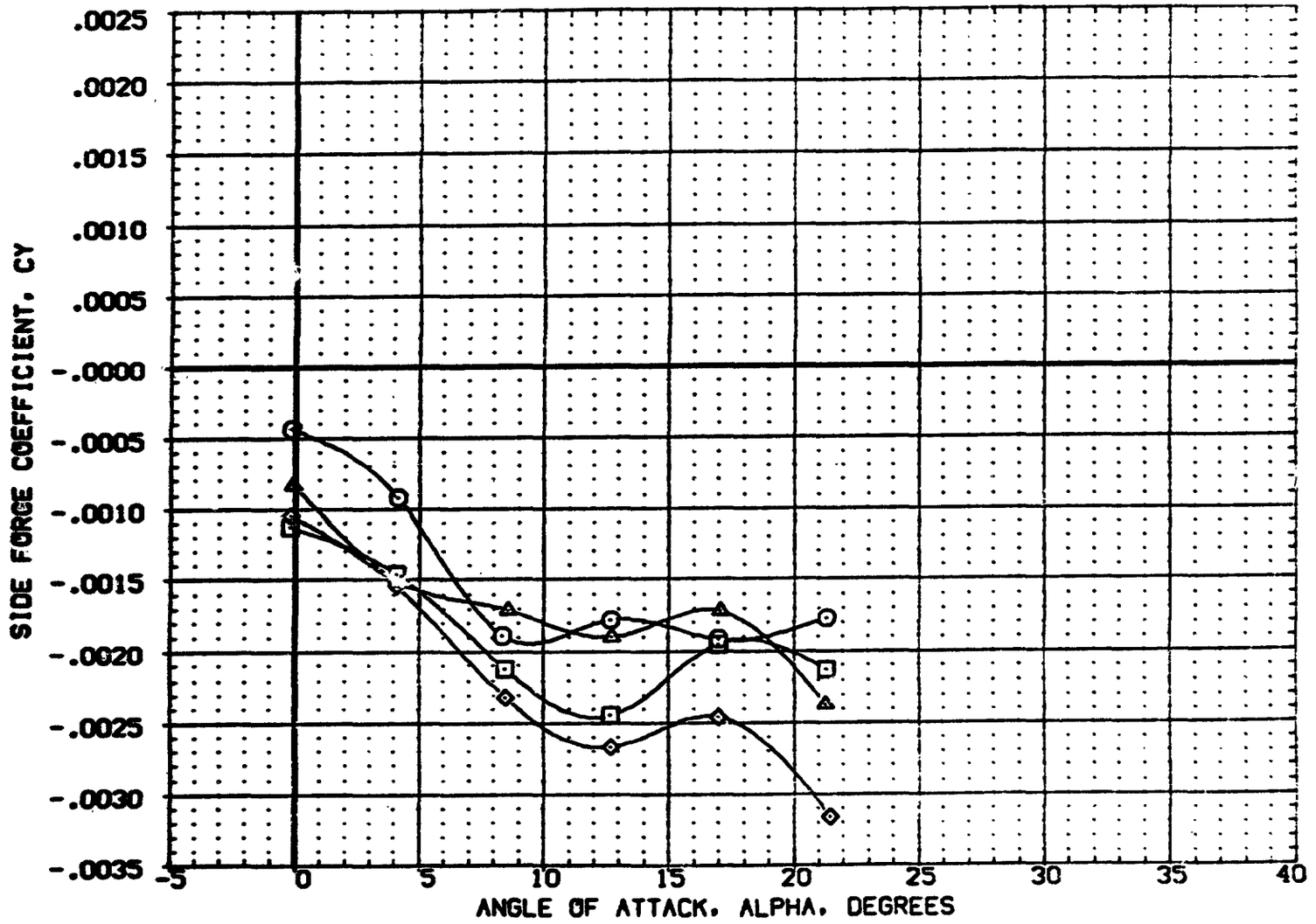
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(C)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPM067)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245
LREF	7.8828
BREF	15.1152
XMRP	12.9510
YMRP	.0000
ZMRP	6.0000
SCALE	.0150



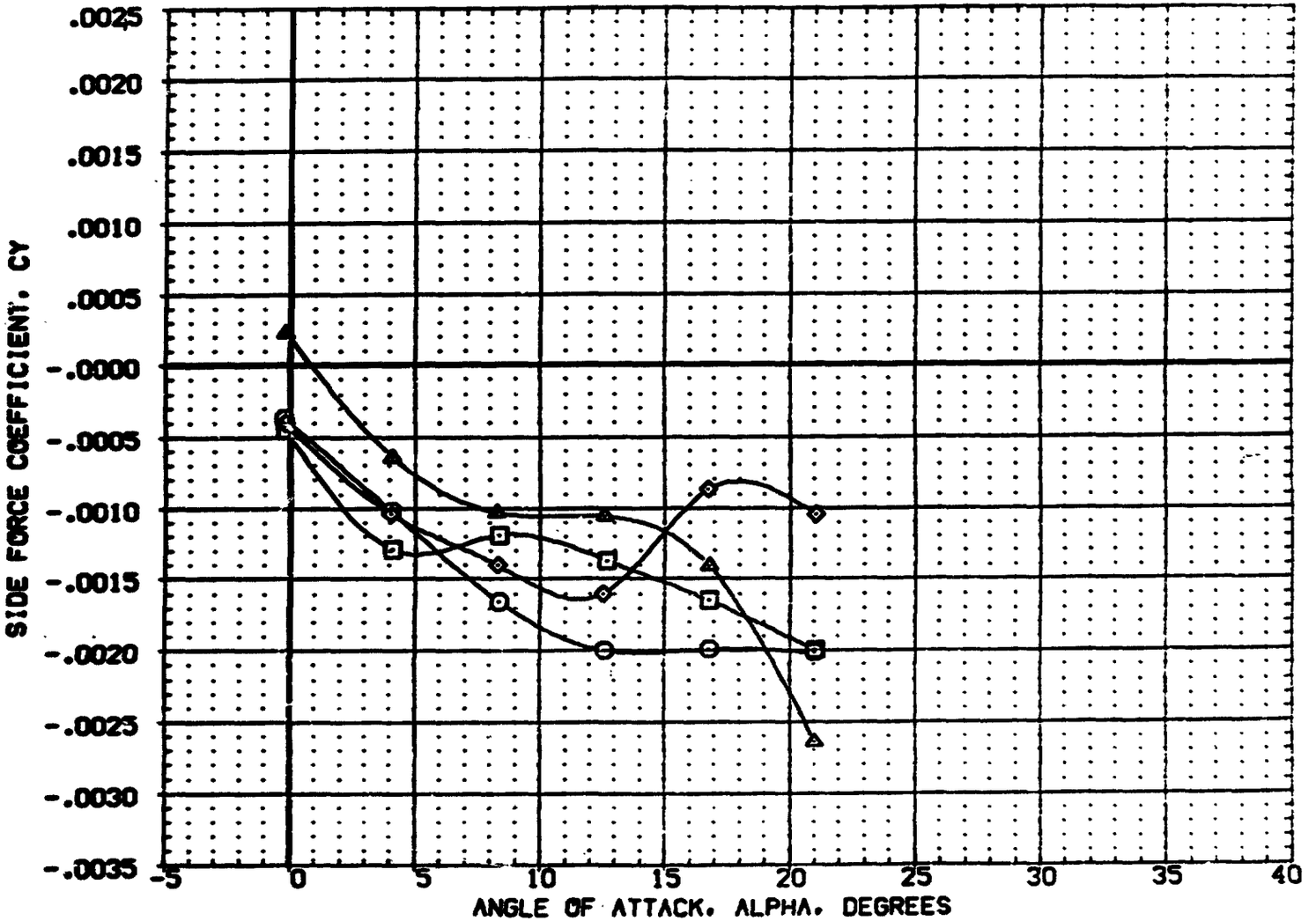
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(A)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	□	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	⊠	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPM067)	△	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



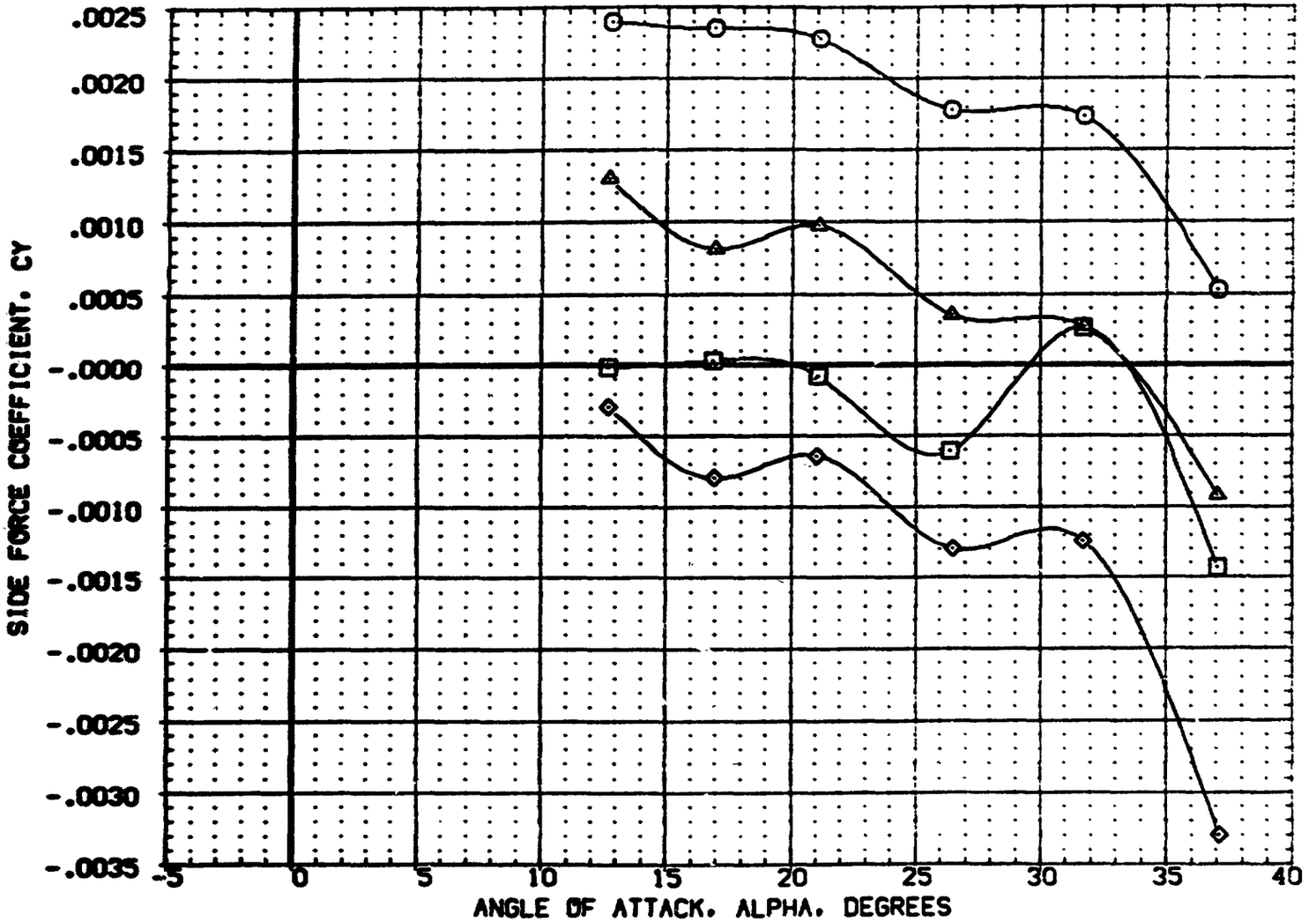
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(B)MACH = 2.95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPH016) ○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN1	.000	.000	3.000
(BPH036) □	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN4	.000	.000	3.000
(BPH055) ◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	.000	3.000
(BPH067) △	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



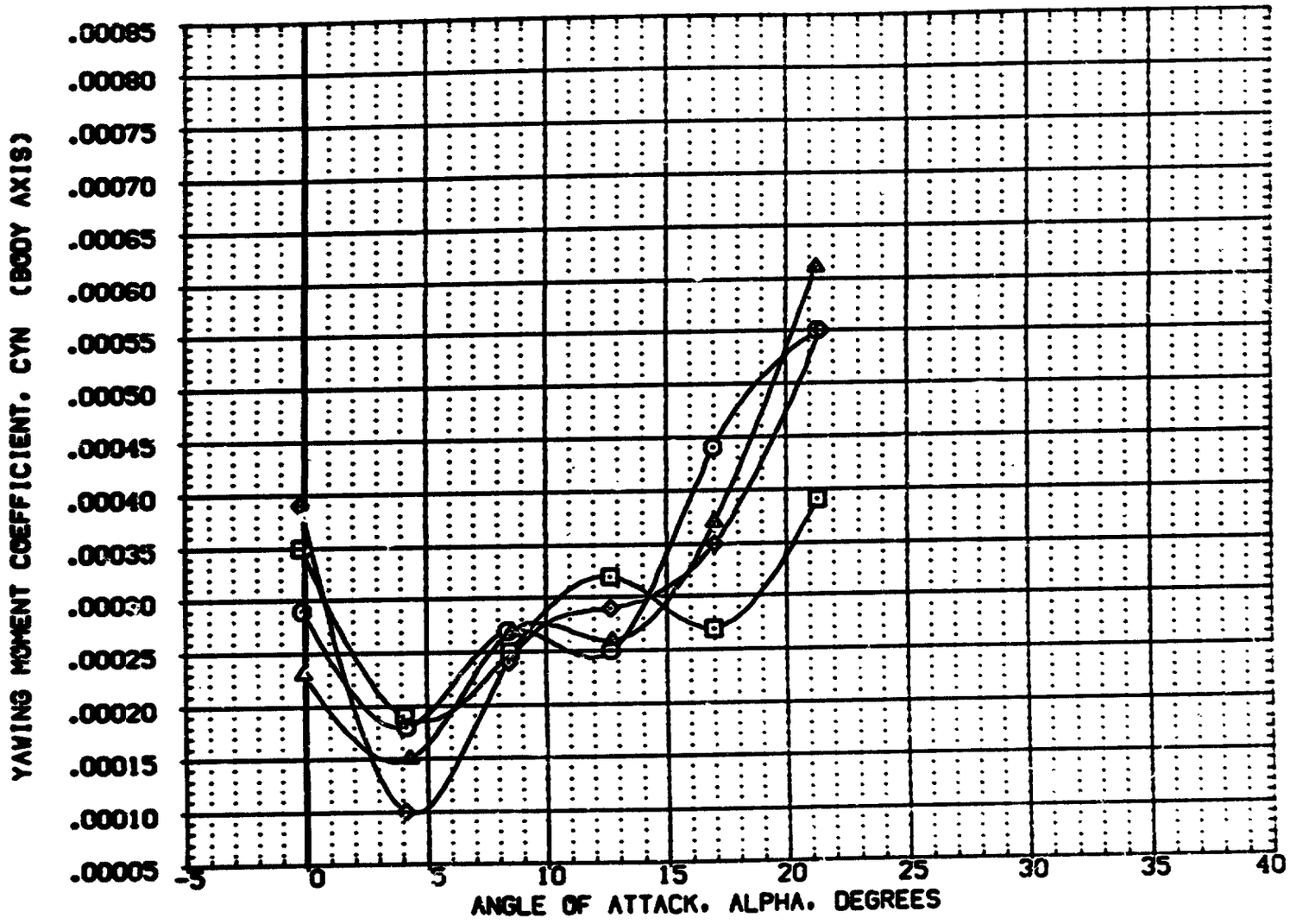
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(C)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(BPH016) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	3.000
(BPH036) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	3.000
(BPH056) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	.000	3.000
(BPH057) △	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



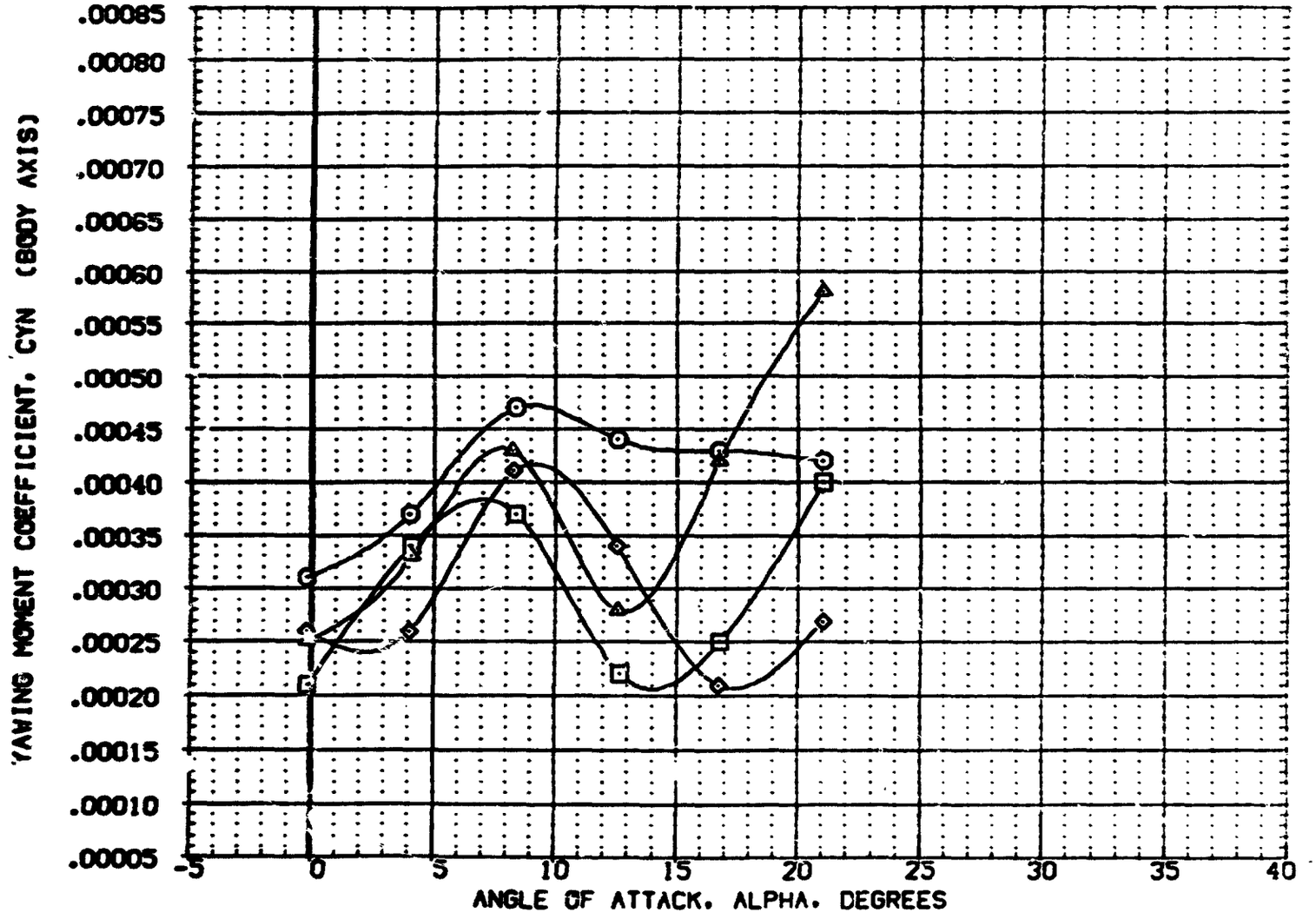
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(A)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN10	.000	.000	3.000
(BPM067)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN11	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.9328	INCHES
BREF	15.1152	INCHES
XMRP	12.6610	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

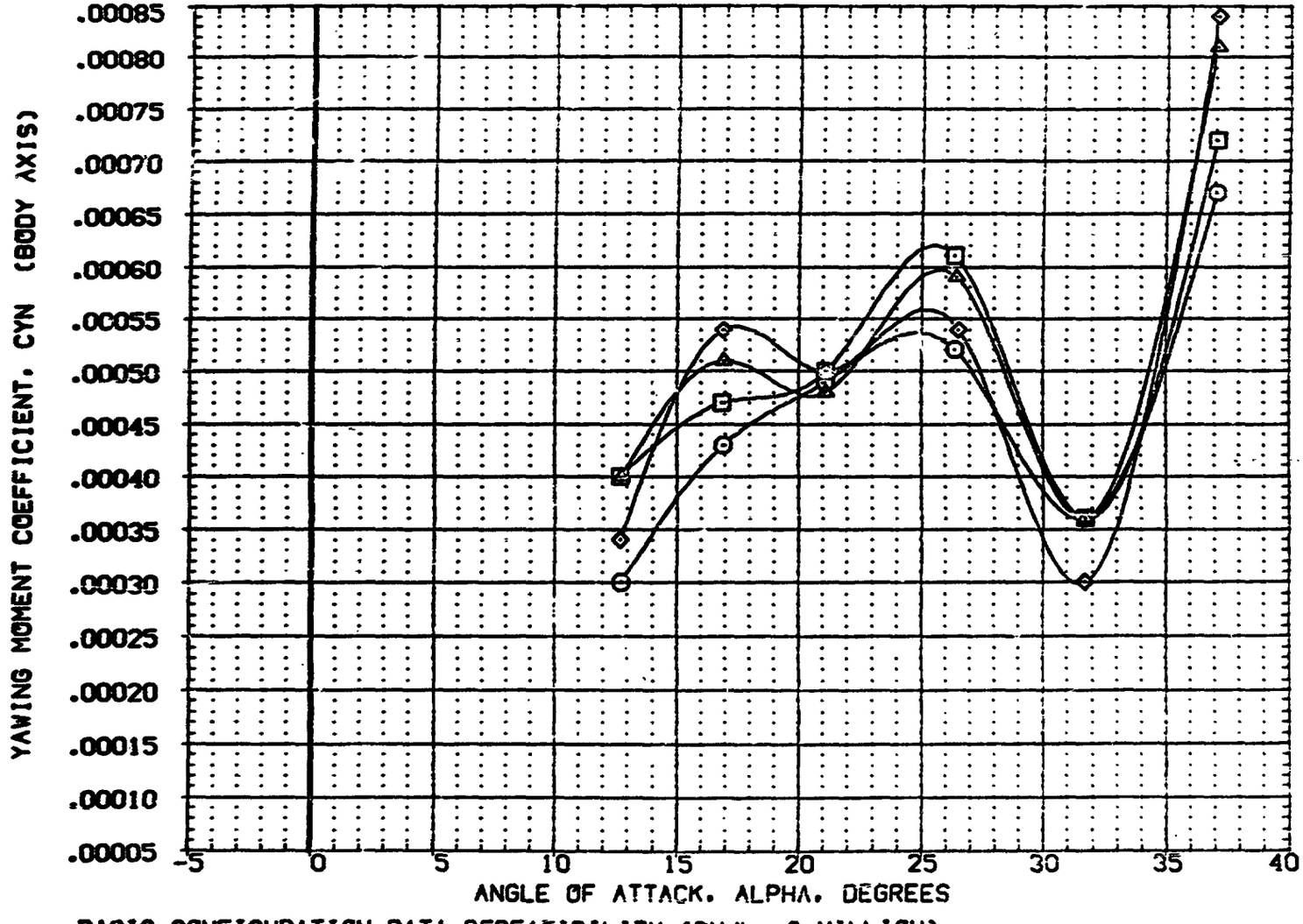


BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(B)MACH = 2.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	.000	3.000
(BPM067)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



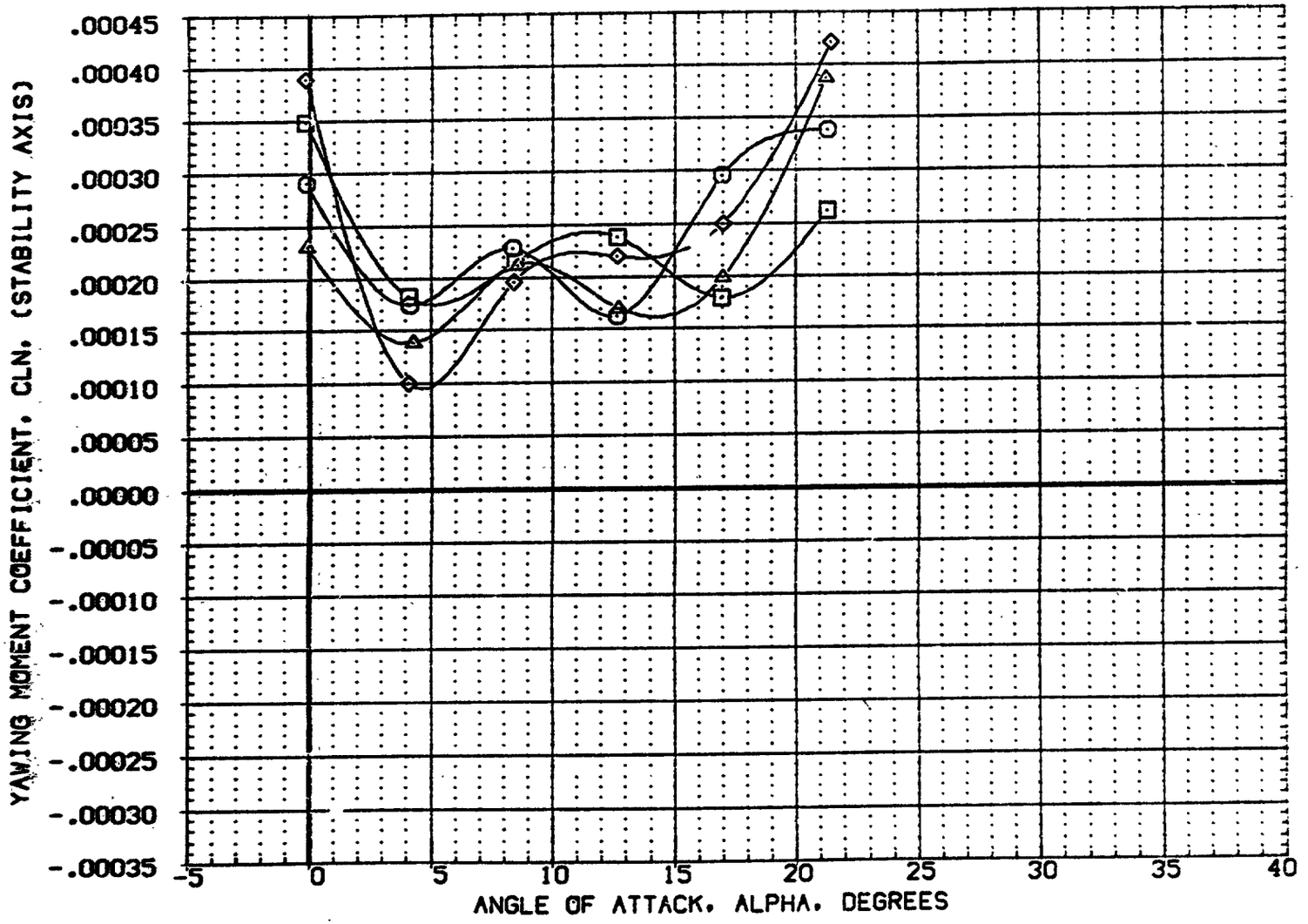
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(C)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	PC-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	⊠	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPM087)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	FT.
BREF	15.1152	FT.
XMRP	12.9510	FT.
YMRP	.0000	FT.
ZMRP	6.0000	FT.
SCALE	.0150	

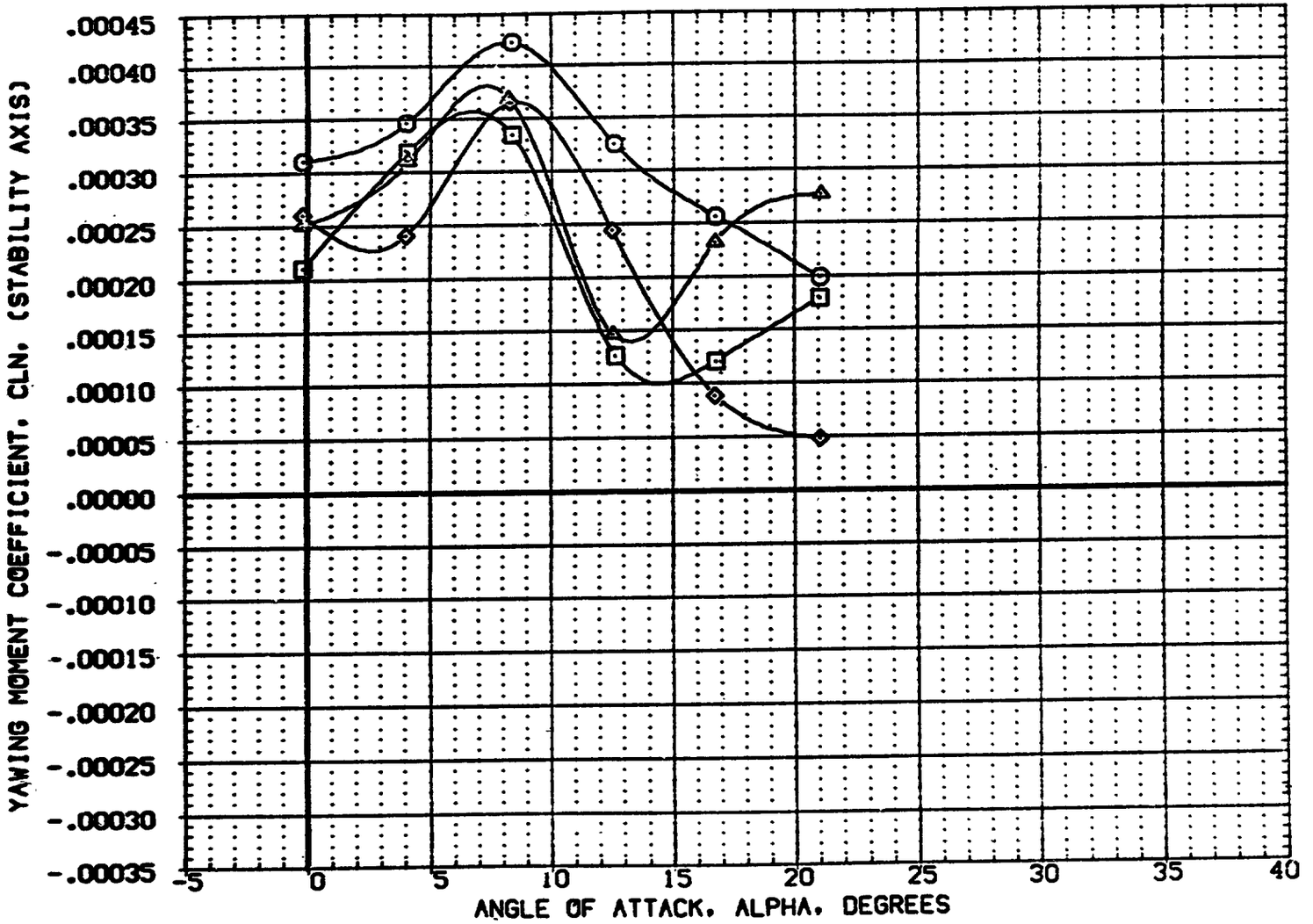


BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(A)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016) ○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN1	.000	.000	3.000
(BPM036) □	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN4	.000	.000	3.000
(BPM055) ◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN40	.000	.000	3.000
(BPM067) △	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN41	.000	.000	3.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.6828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



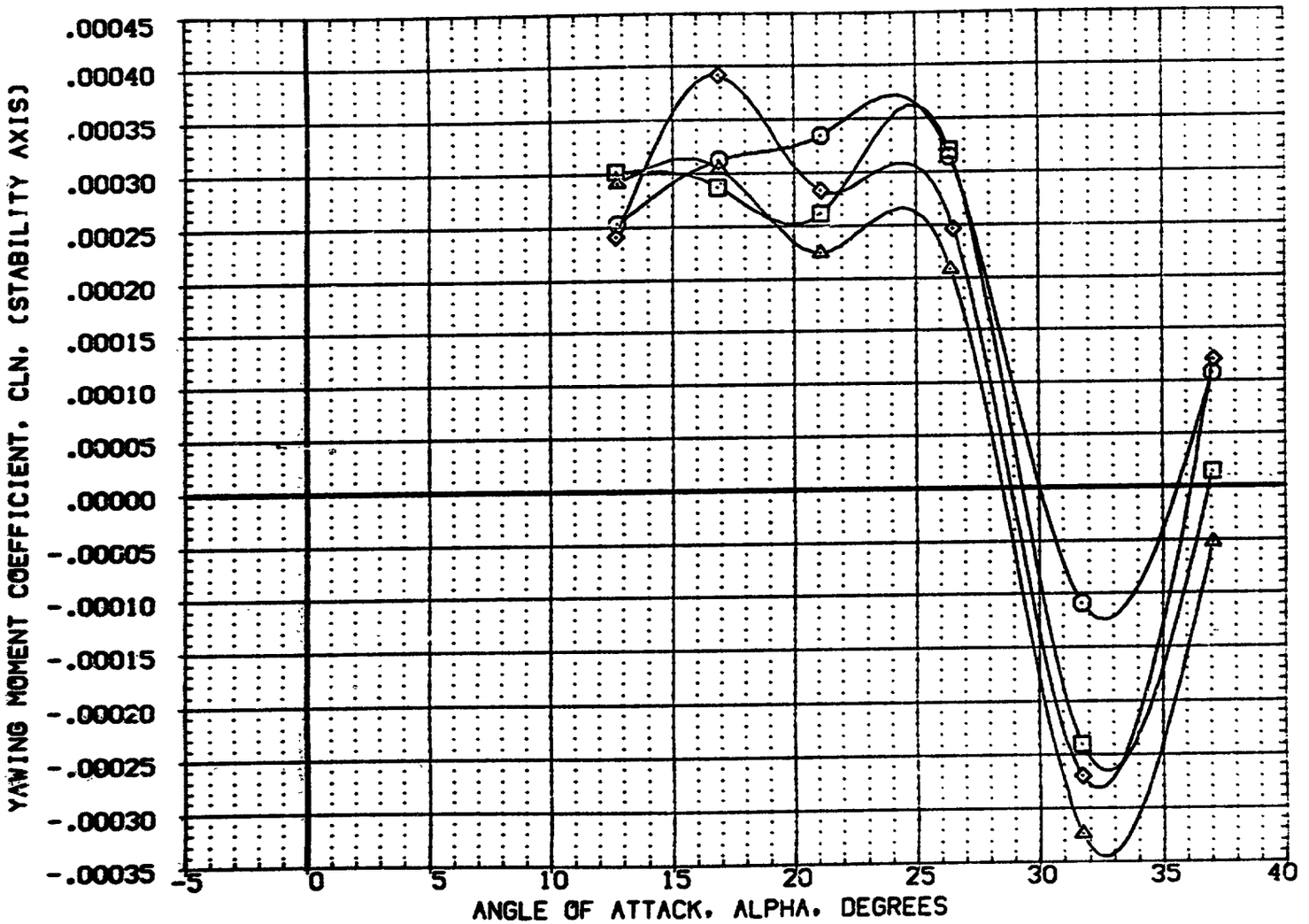
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(B)MACH = 2.95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPM055) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPM067) △	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.6828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

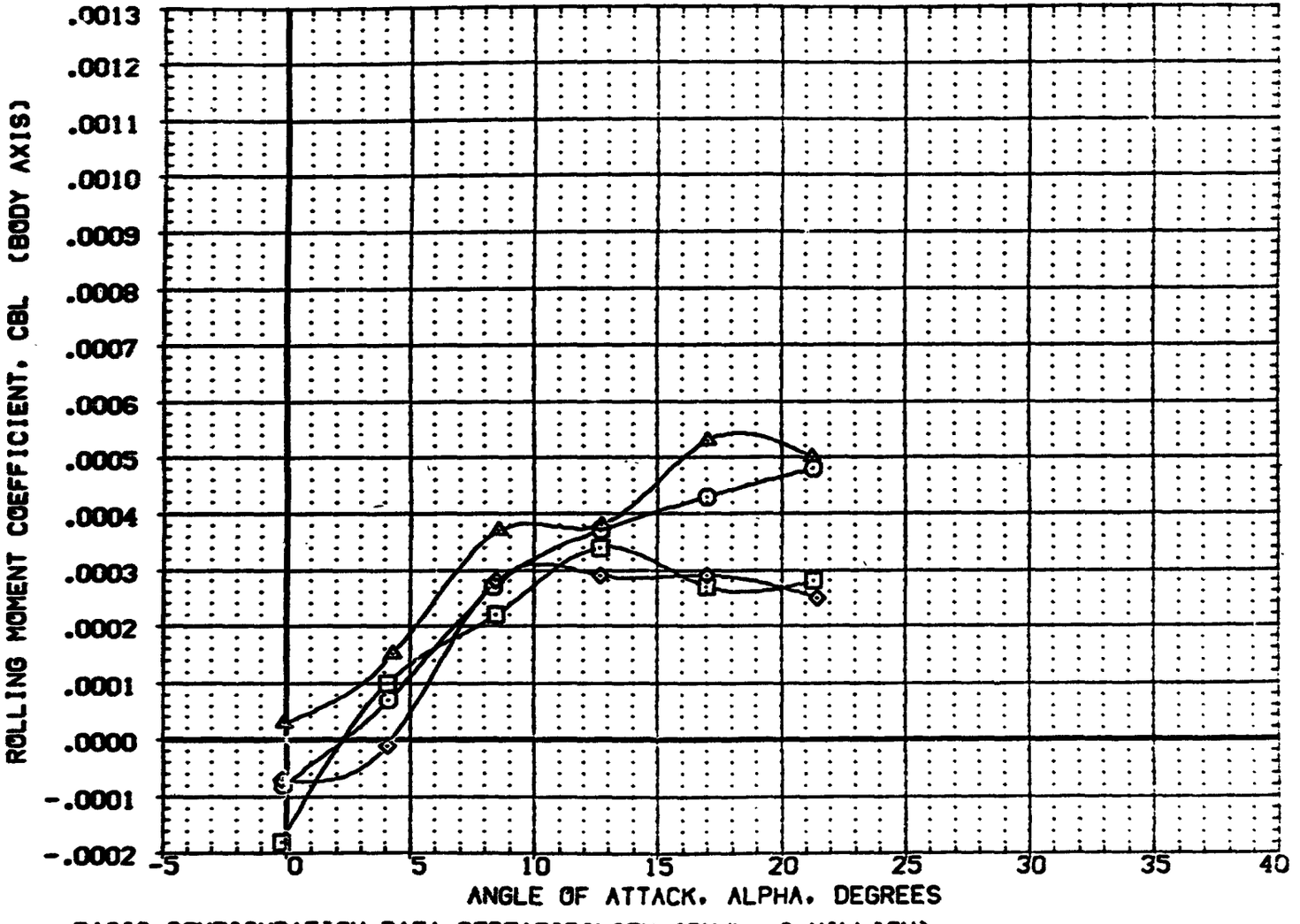


BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(C)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPHO16)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPHO36)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPHO65)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPHO67)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



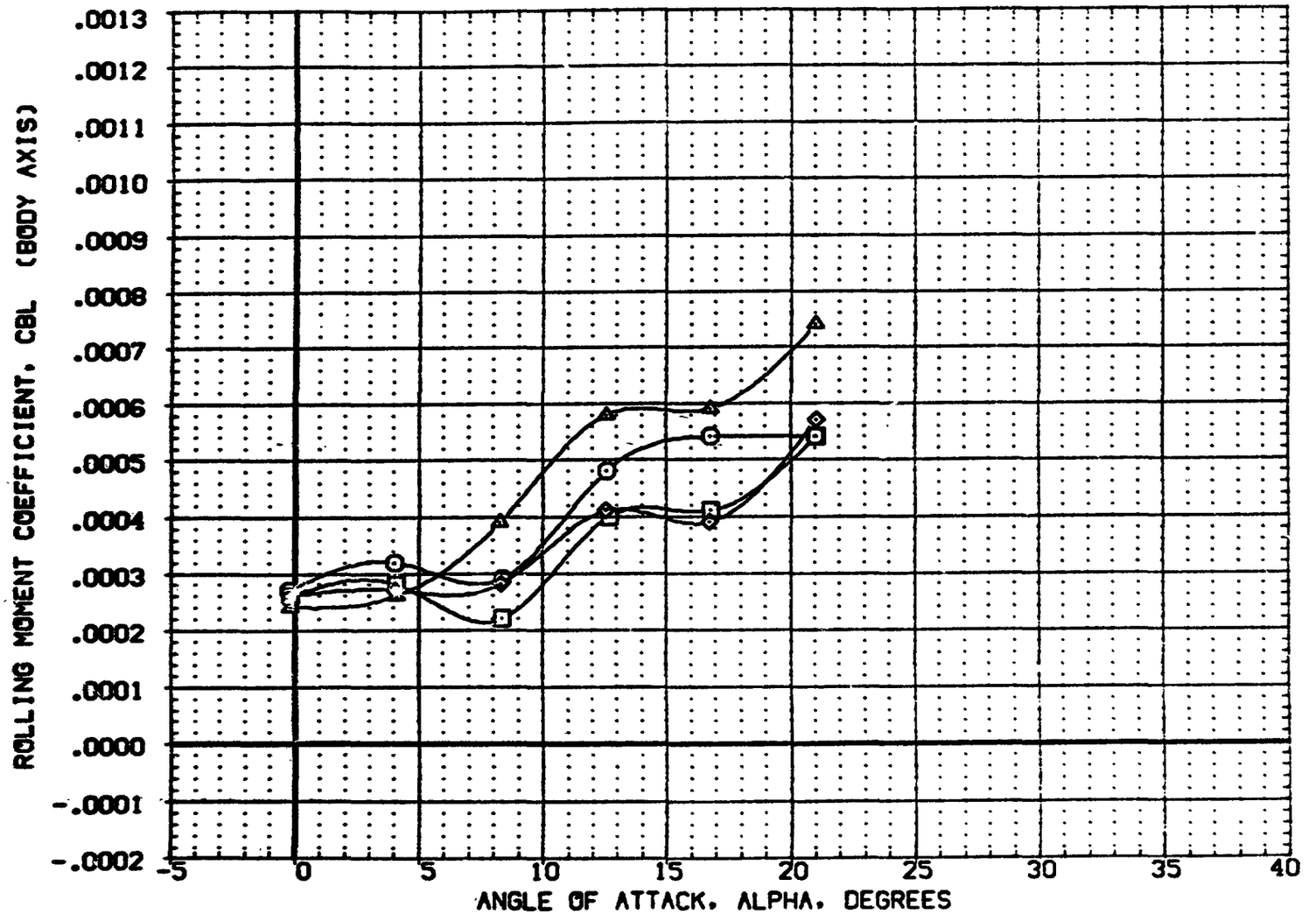
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(A)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPM057)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

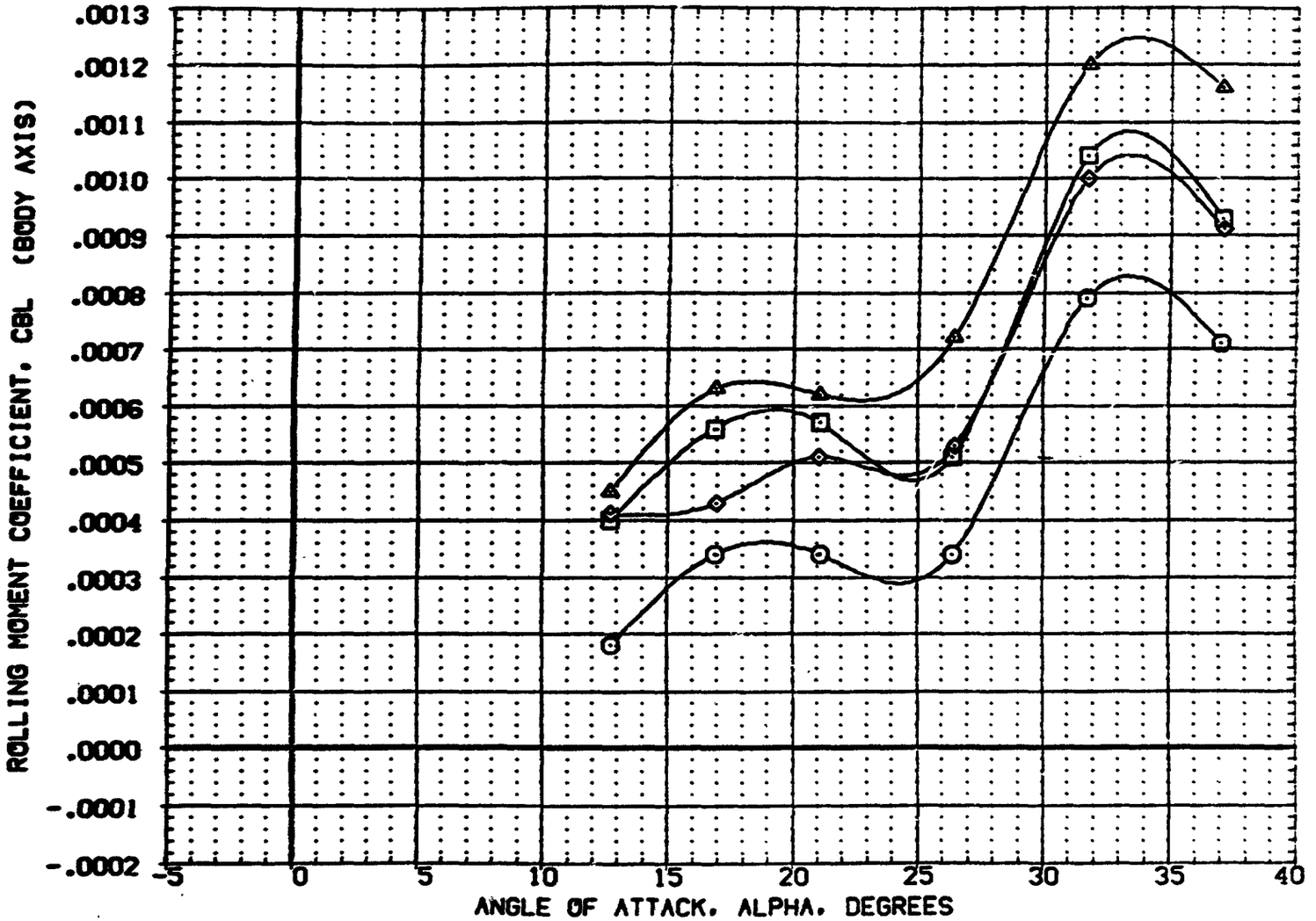


BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(B)MACH = 2.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPM067)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

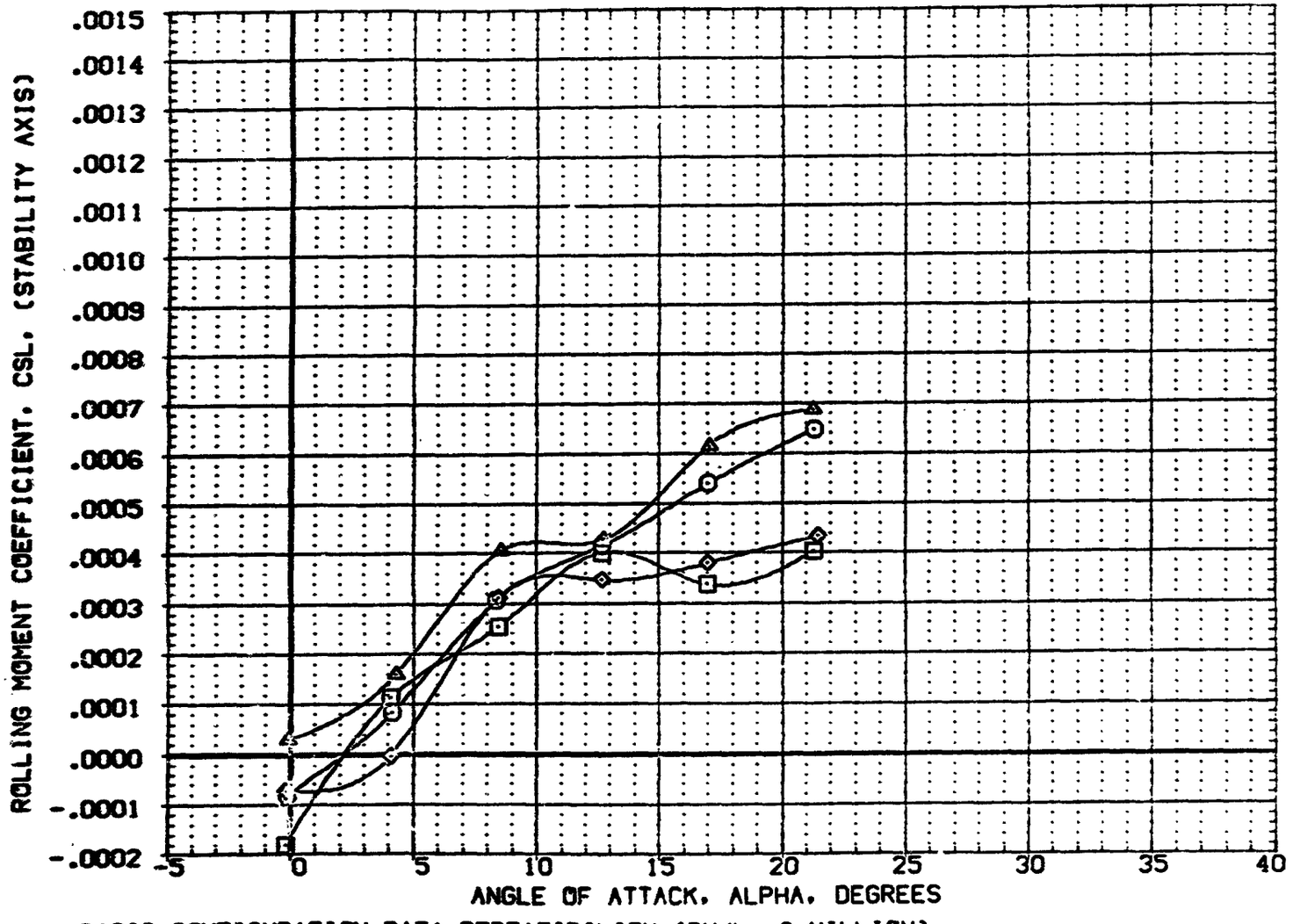


BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(C)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPM067)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

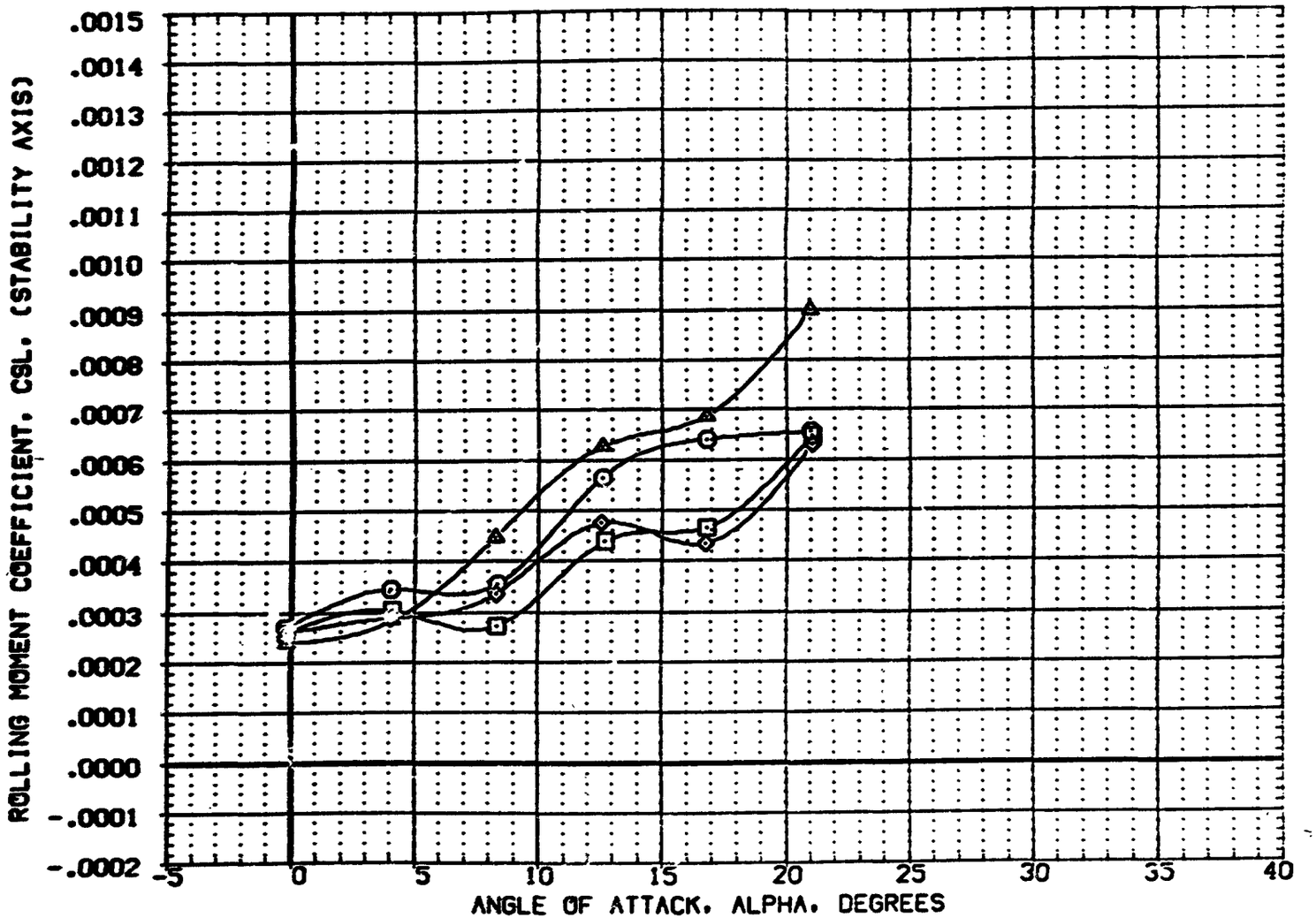


BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(A)MACH = 2.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPH016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPH036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPH055)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPH067)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



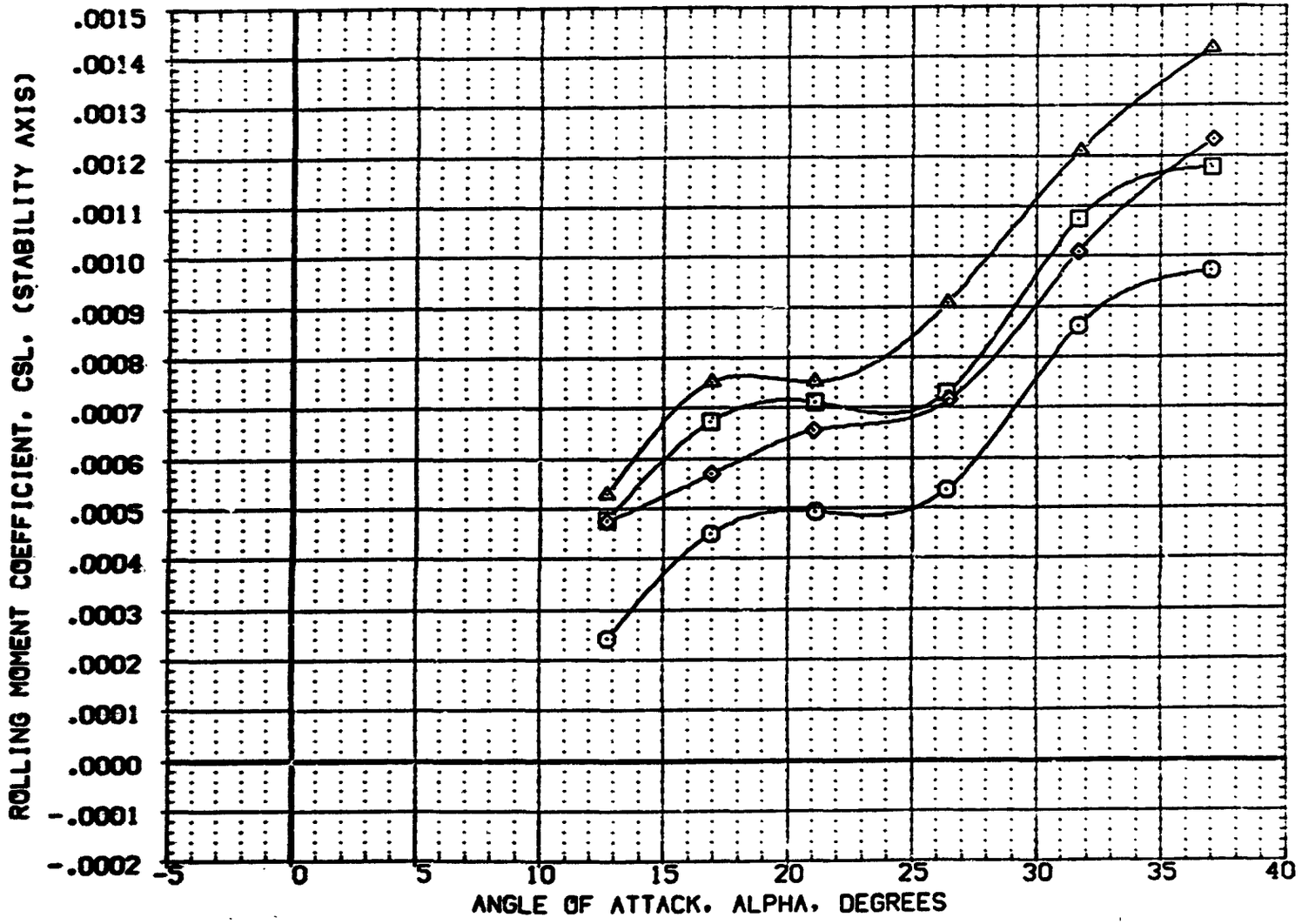
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(B)MACH = 2.95

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(BPM055)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	3.000
(BPM057)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



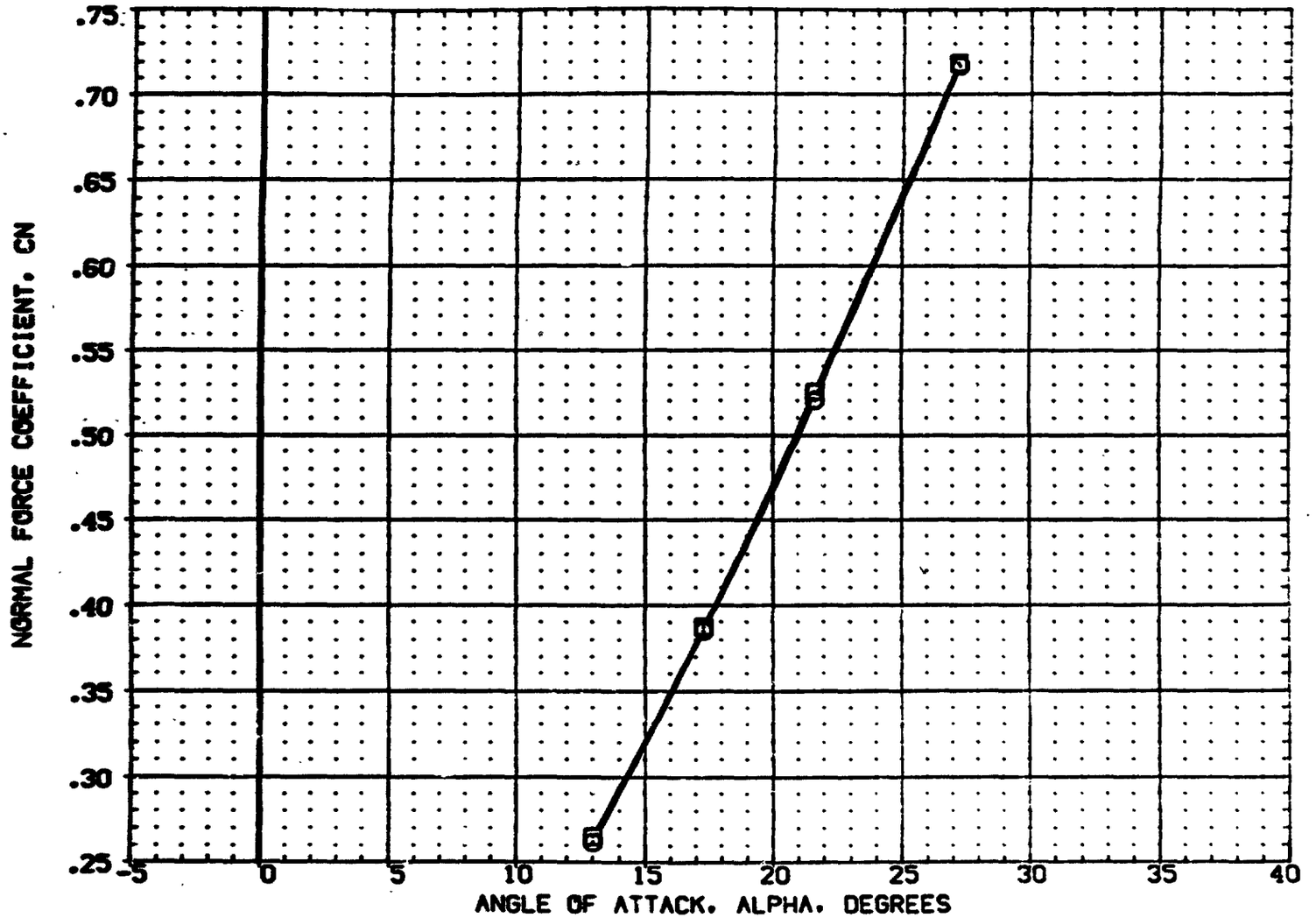
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 3 MILLION)

(C)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPH023)	8	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	5.000
(CPH044)	8	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



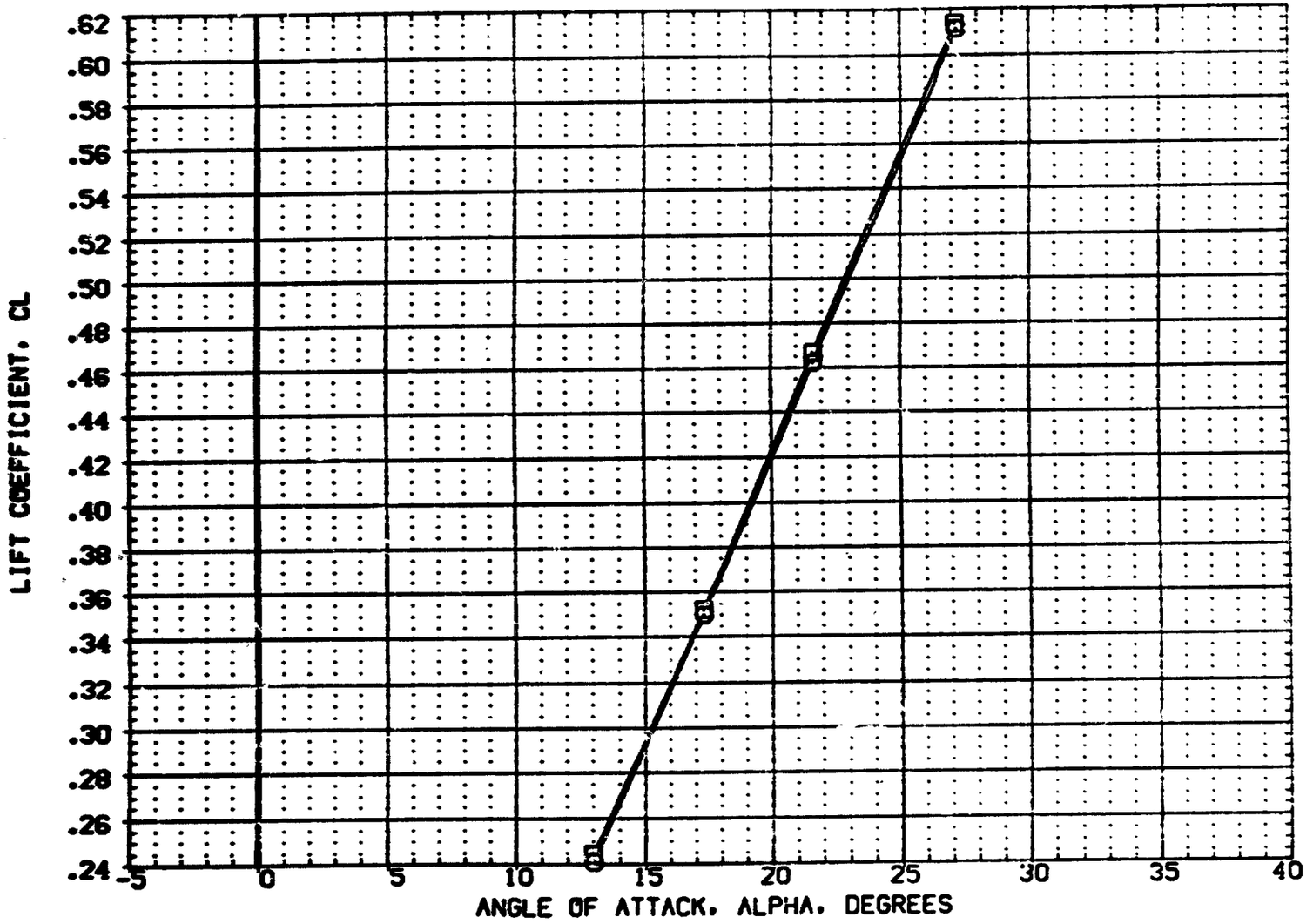
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 5 MILLION)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM025)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	5.000
(CPM044)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

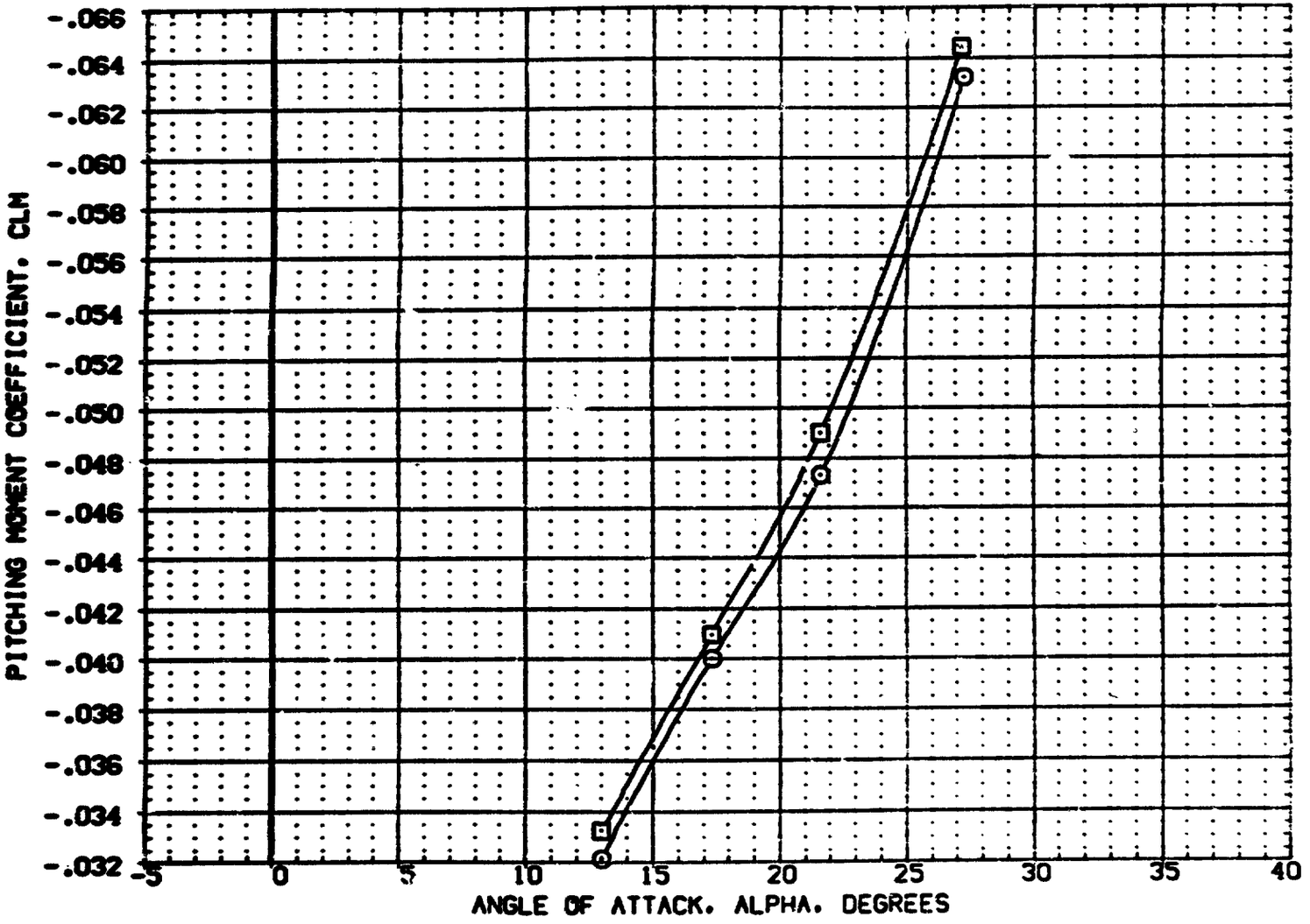


BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 5 MILLION)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(OH025)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	5.000
(OH014)	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	5.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



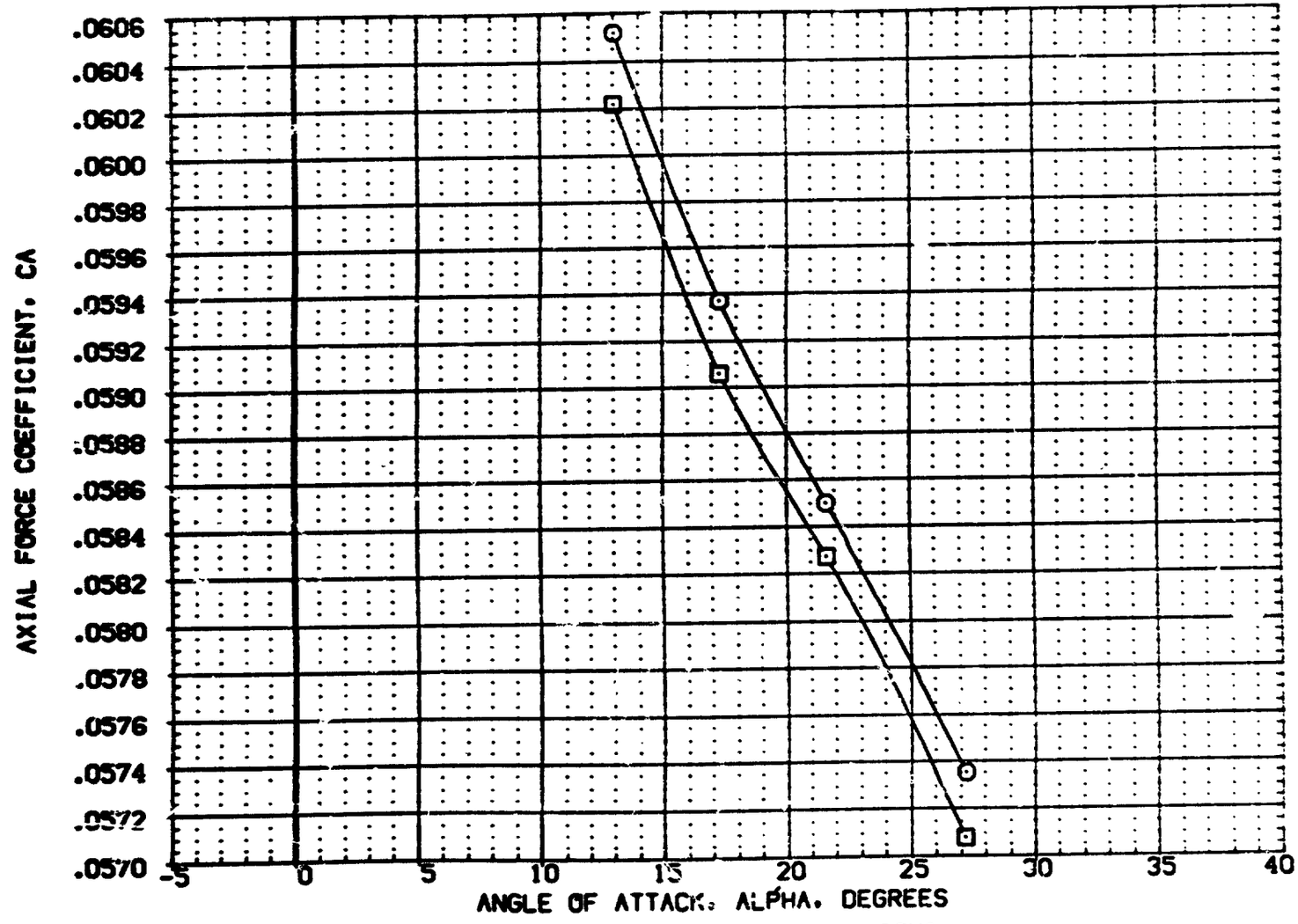
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 5 MILLION)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM025)	MA-7.LPVT 103I.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	5.000
(CPM044)	MA-7.LPVT 103I.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8929	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



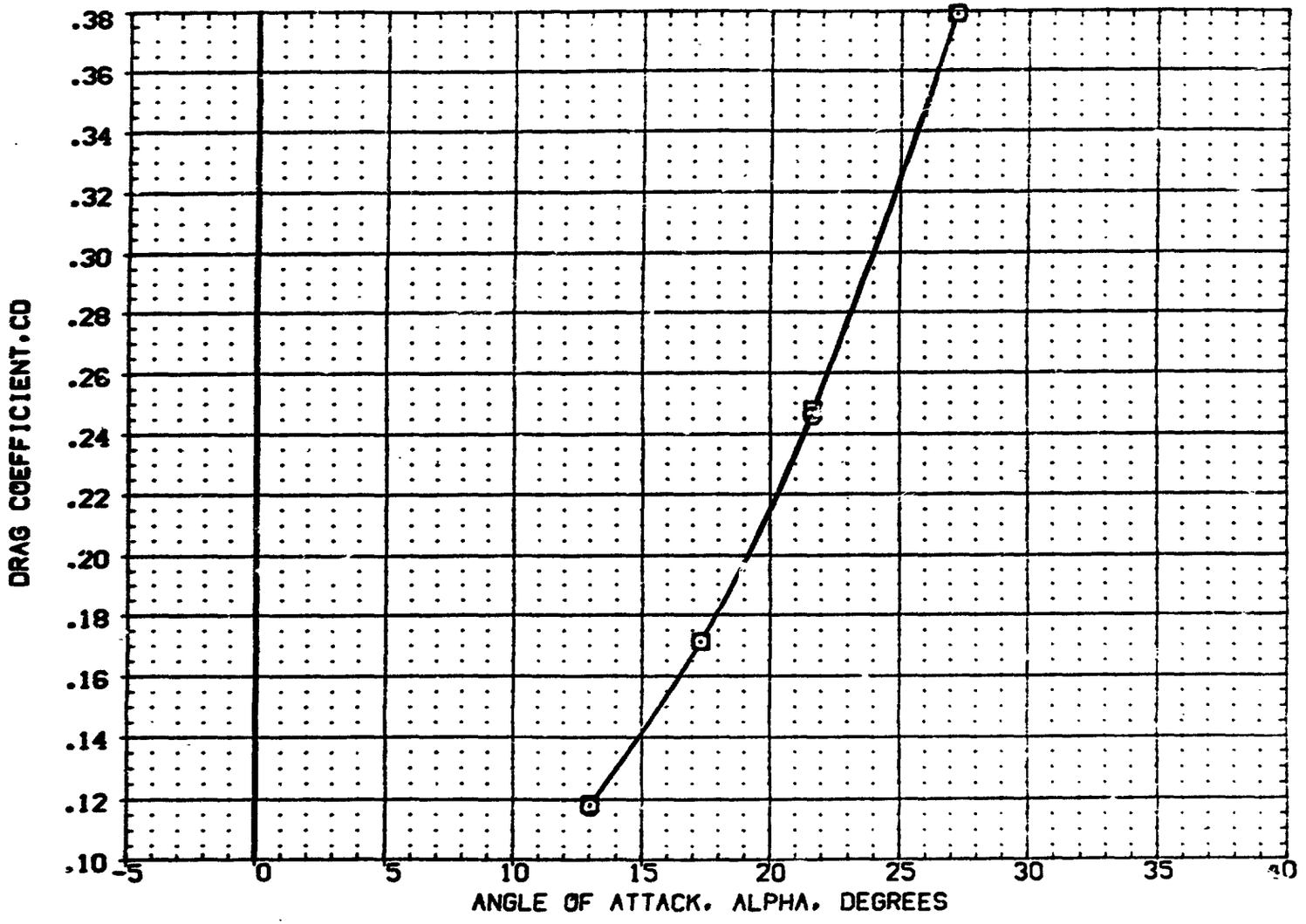
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 5 MILLION)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM025)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	5.000
(CPM044)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.882J	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



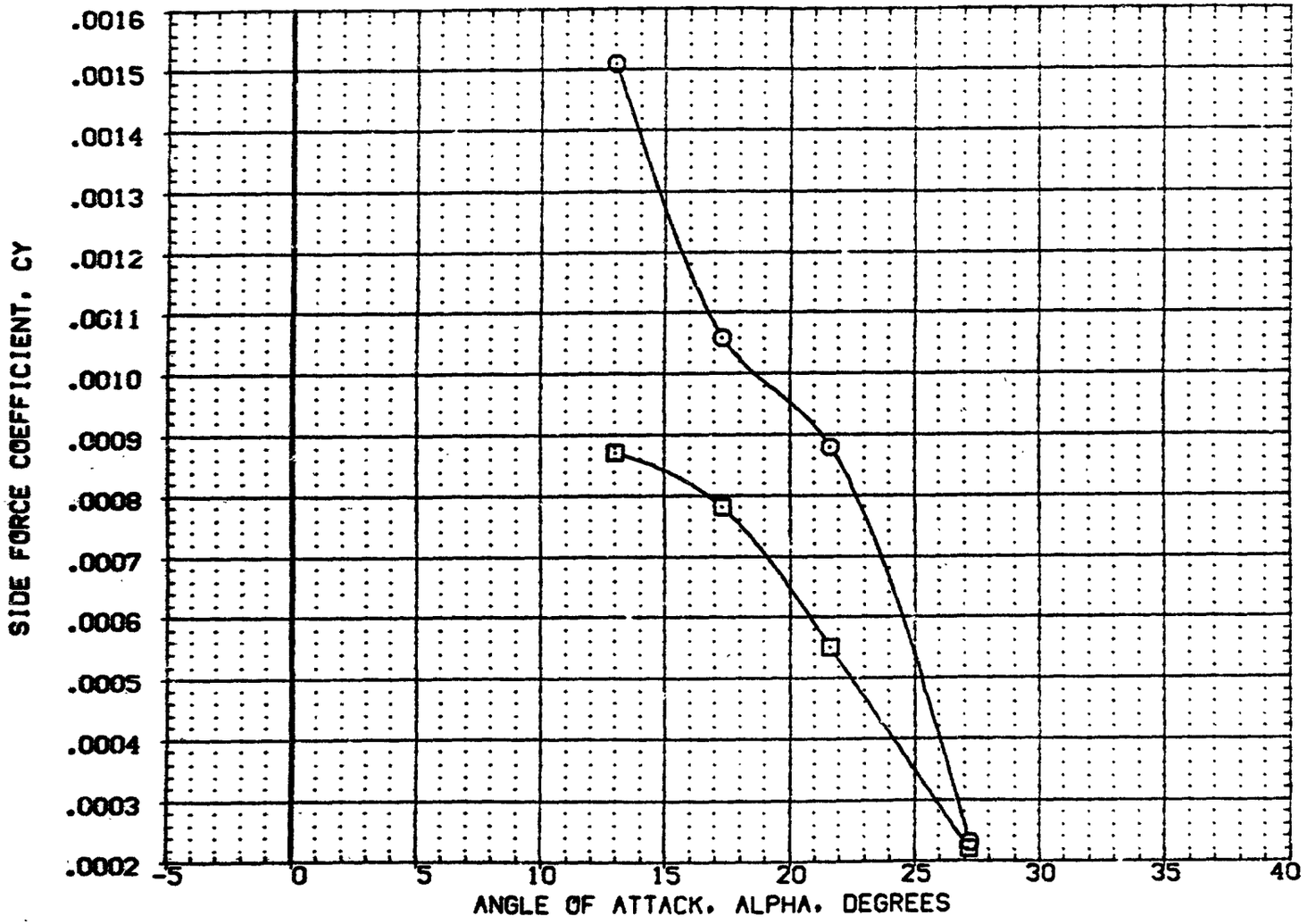
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 5 MILLION)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM025)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BWTN1	.000	.000	5.000
(CPM044)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BWTN4	.000	.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



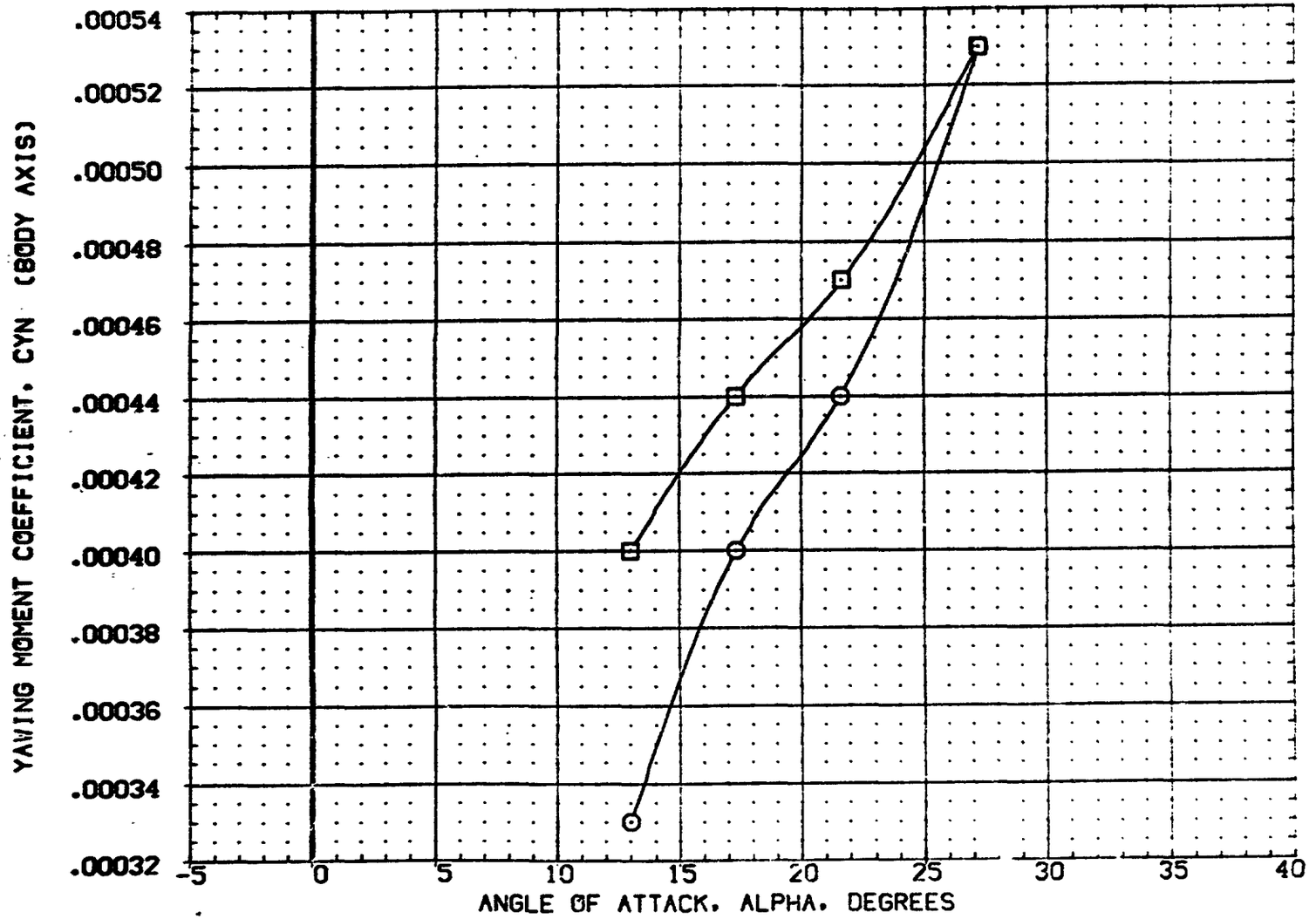
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 5 MILLION)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM025) ○	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	5.000
(CPM044) □	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



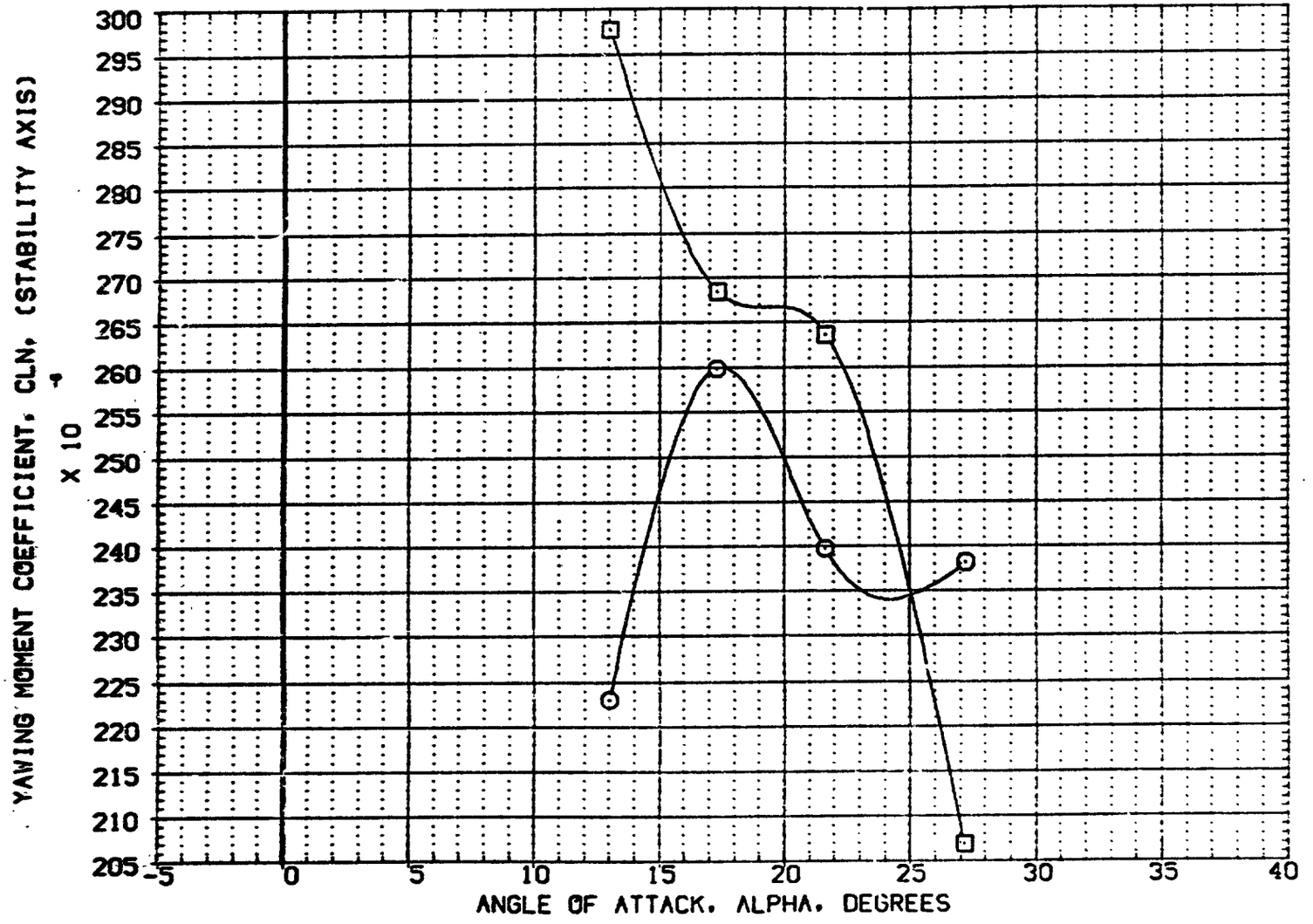
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 5 MILLION)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM025)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	.000	.000	5.000
(CPM044)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.6328	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



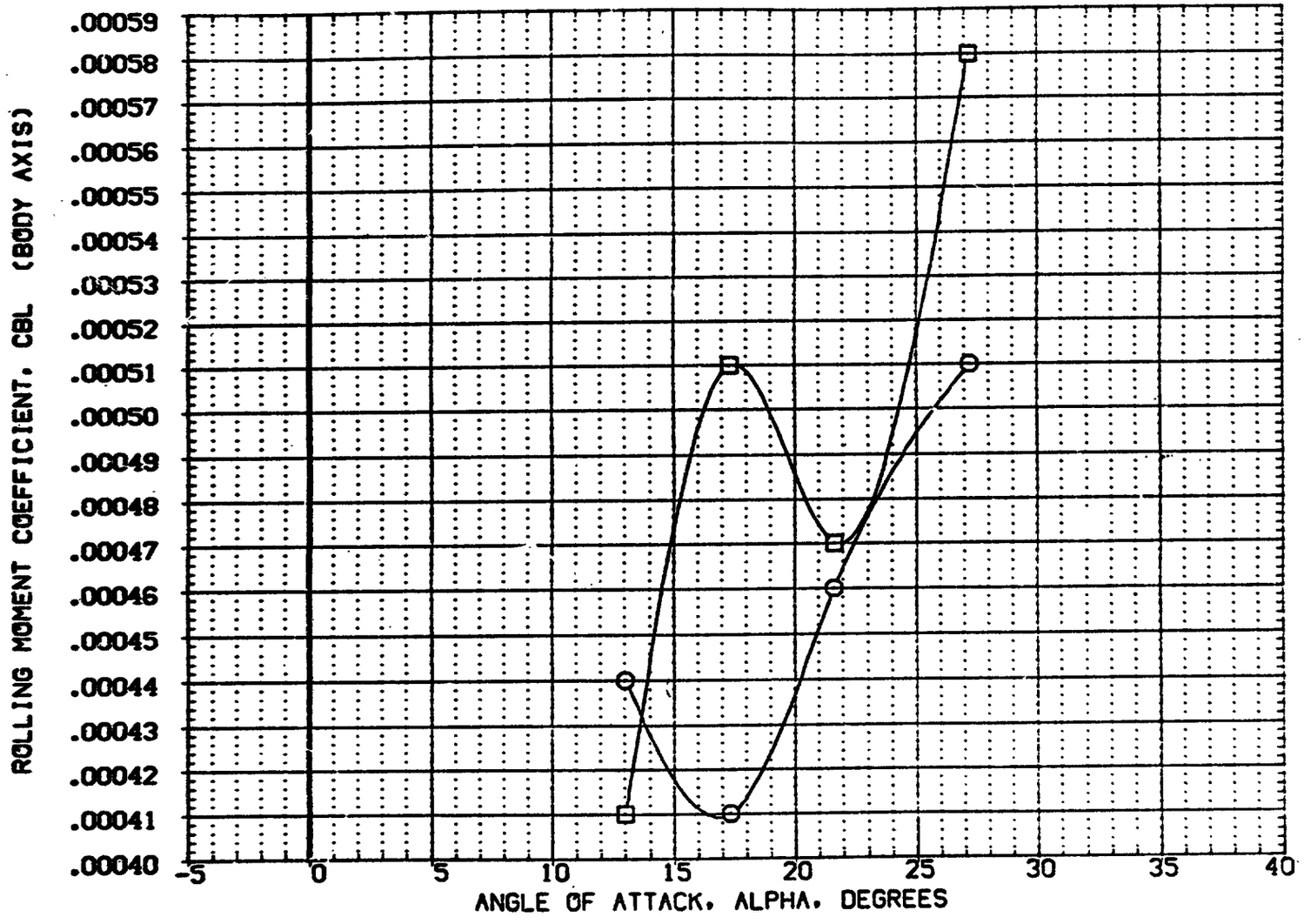
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 5 MILLION)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM025) ○	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BVTN1	.000	.000	5.000
(CPM044) □	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BVTN4	.000	.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



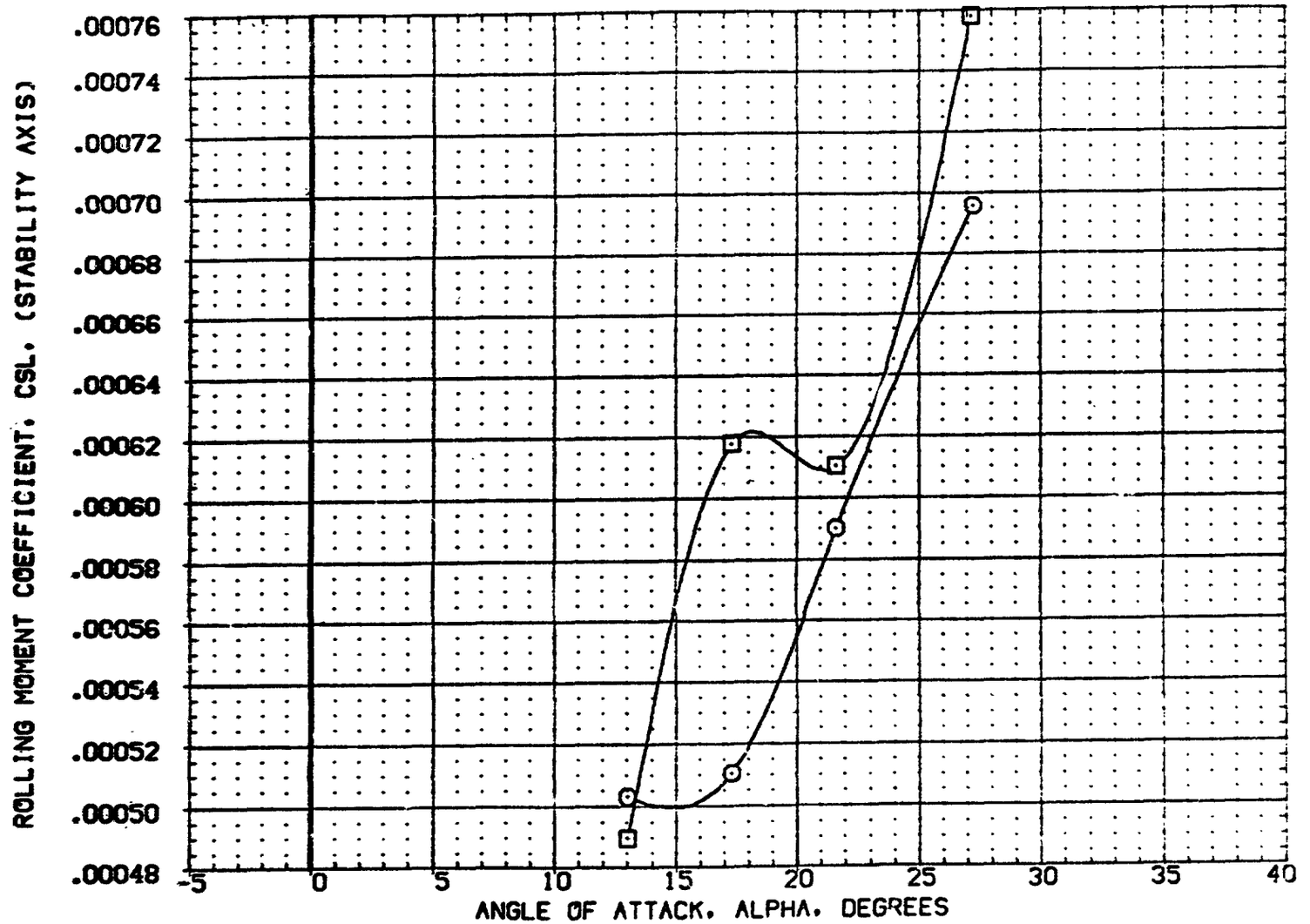
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 5 MILLION)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM025) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	5.000
(CPM034) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



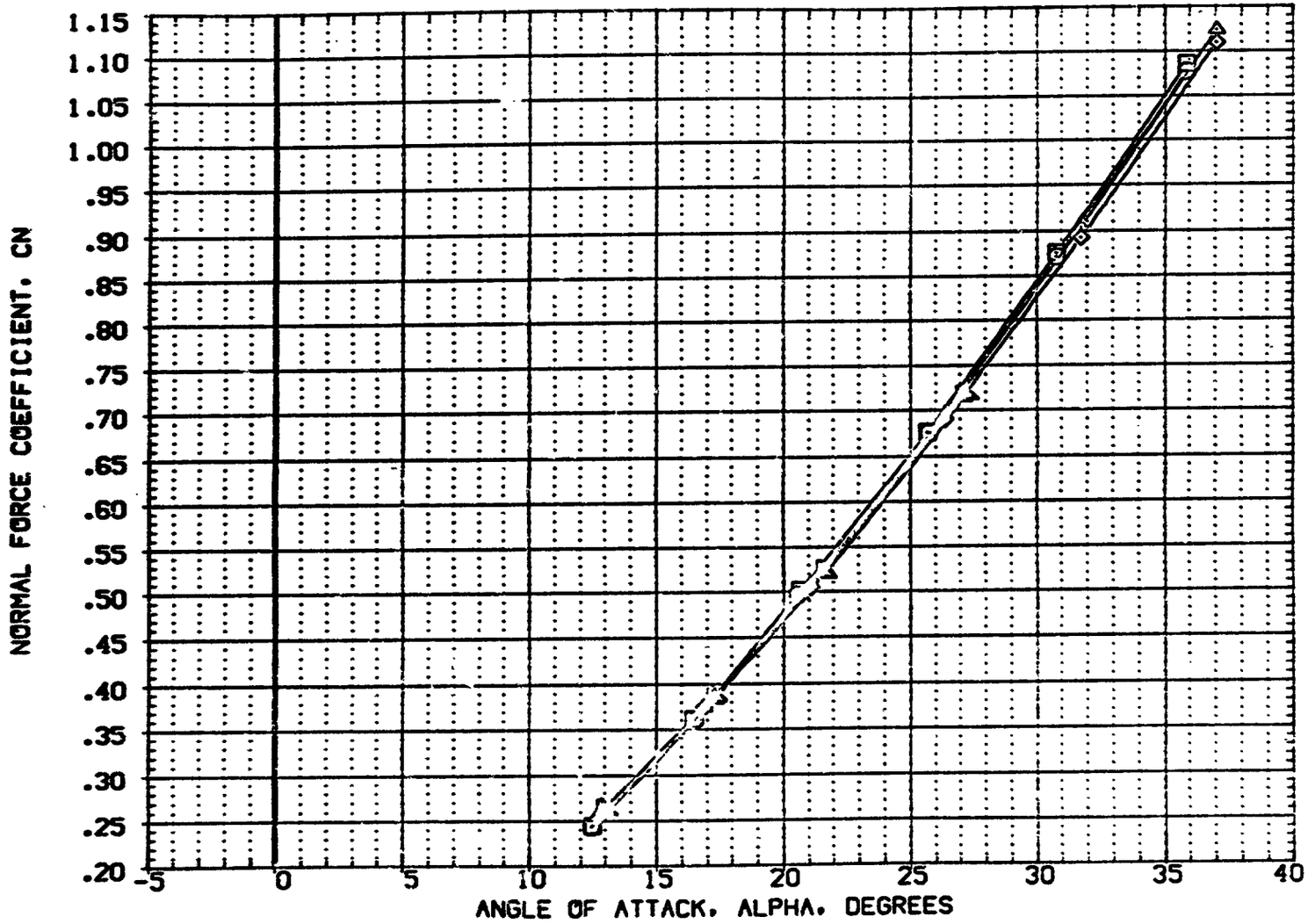
BASIC CONFIGURATION DATA REPEATIBILITY (RN/L= 5 MILLION)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	.000	.000	1.000
(CPM040)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	.000	1.000
(CPM024)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	.000	.000	3.000
(CPM043)	⋈	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	.000	3.000
(CPM025)	▷	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	.000	.000	5.000
(CPM044)	▷	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

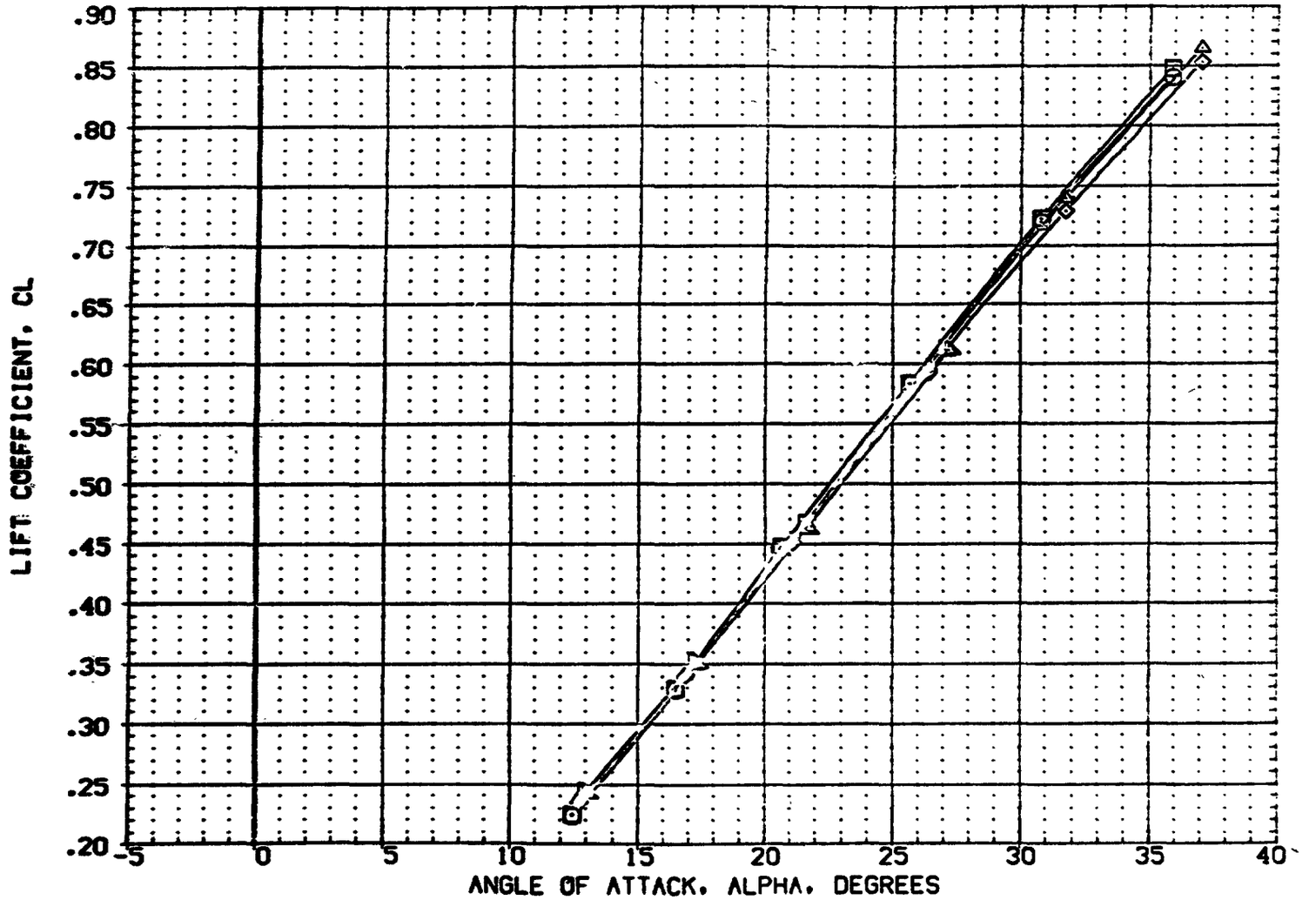


EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	□	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	1.000
(CPM040)	◇	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	1.000
(CPM024)	△	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	3.000
(CPM043)	◇	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	3.000
(CPM025)	□	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	5.000
(CPM044)	◇	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	5.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



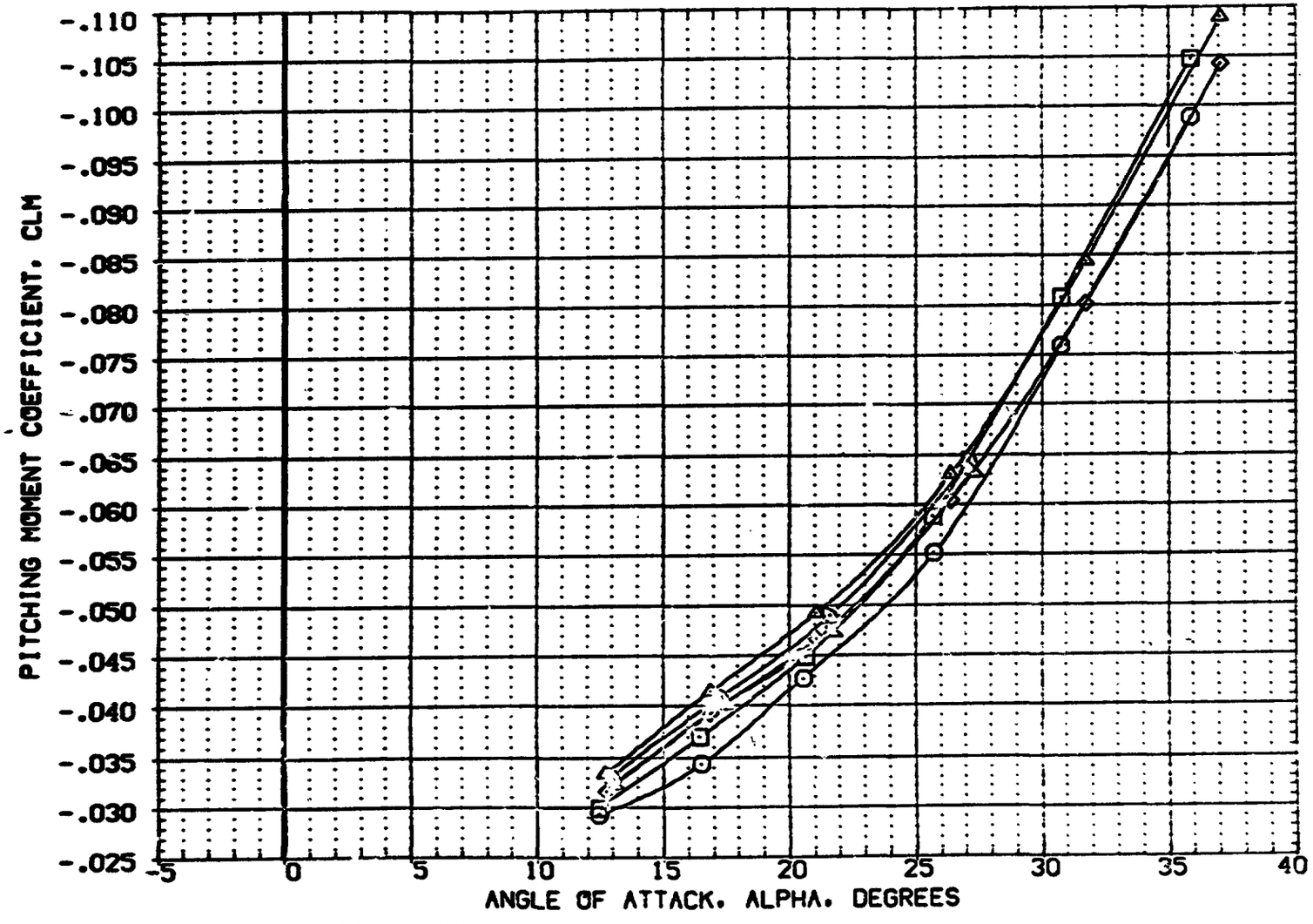
EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM021)	□	MA-7.UPVT 1031.ROCKVELL PRR CRB. CONF.	BVTN1	.000	.000	1.000
(CPM040)	□	MA-7.UPVT 1031.ROCKVELL PRR CRB. CONF.	BVTN4	.000	.000	1.000
(CPM024)	◇	MA-7.UPVT 1031.ROCKVELL PRR CRB. CONF.	BVTN1	.000	.000	3.000
(CPM043)	◇	MA-7.UPVT 1031.ROCKVELL PRR CRB. CONF.	BVTN4	.000	.000	3.000
(CPM025)	△	MA-7.UPVT 1031.ROCKVELL PRR CRB. CONF.	BVTN1	.000	.000	5.000
(CPM044)	△	MA-7.UPVT 1031.ROCKVELL PRR CRB. CONF.	BVTN4	.000	.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



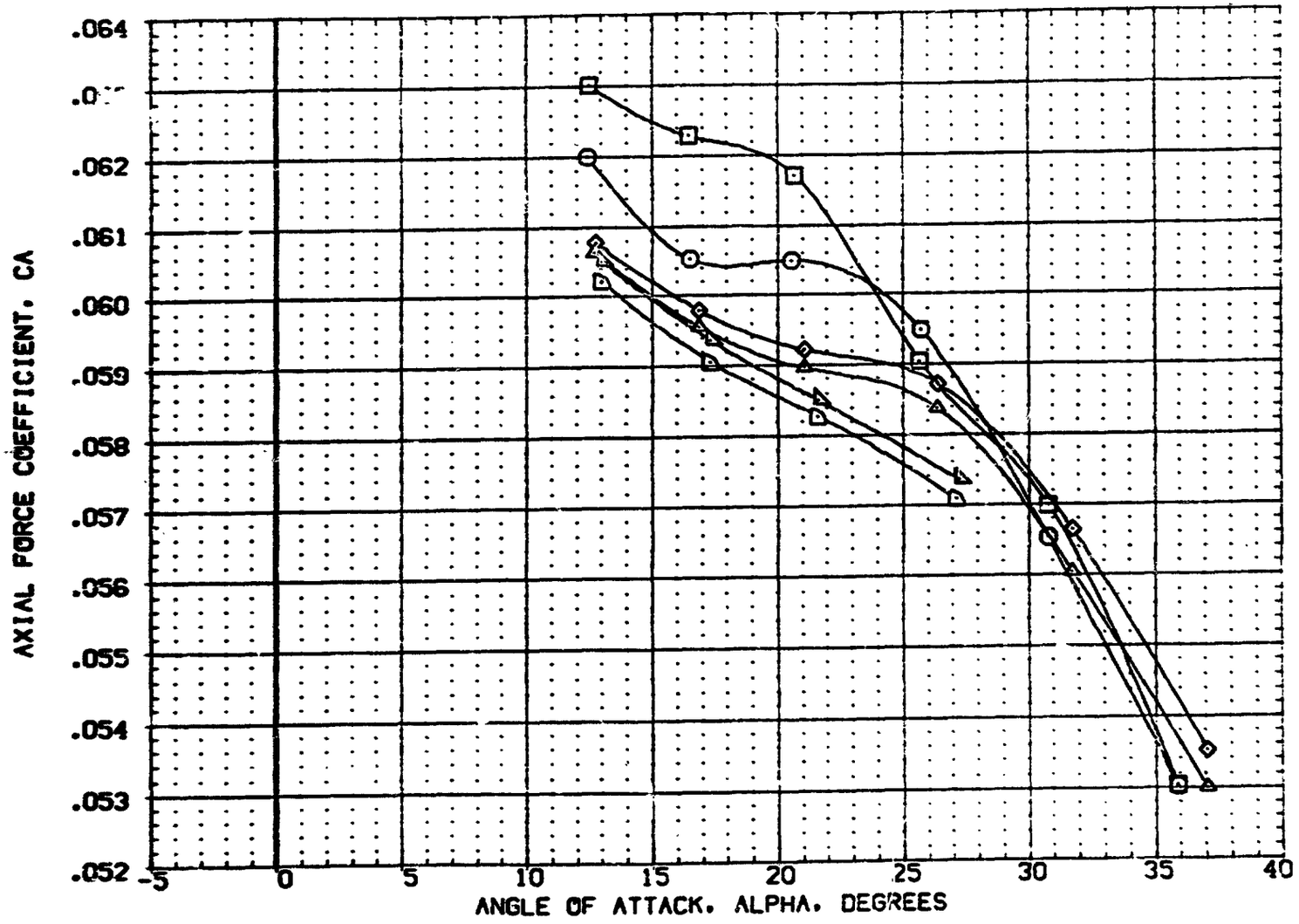
EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM021)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	1.000
(CPM040)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	1.000
(CPM024)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(CPM043)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(CPM025)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	5.000
(CPM044)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



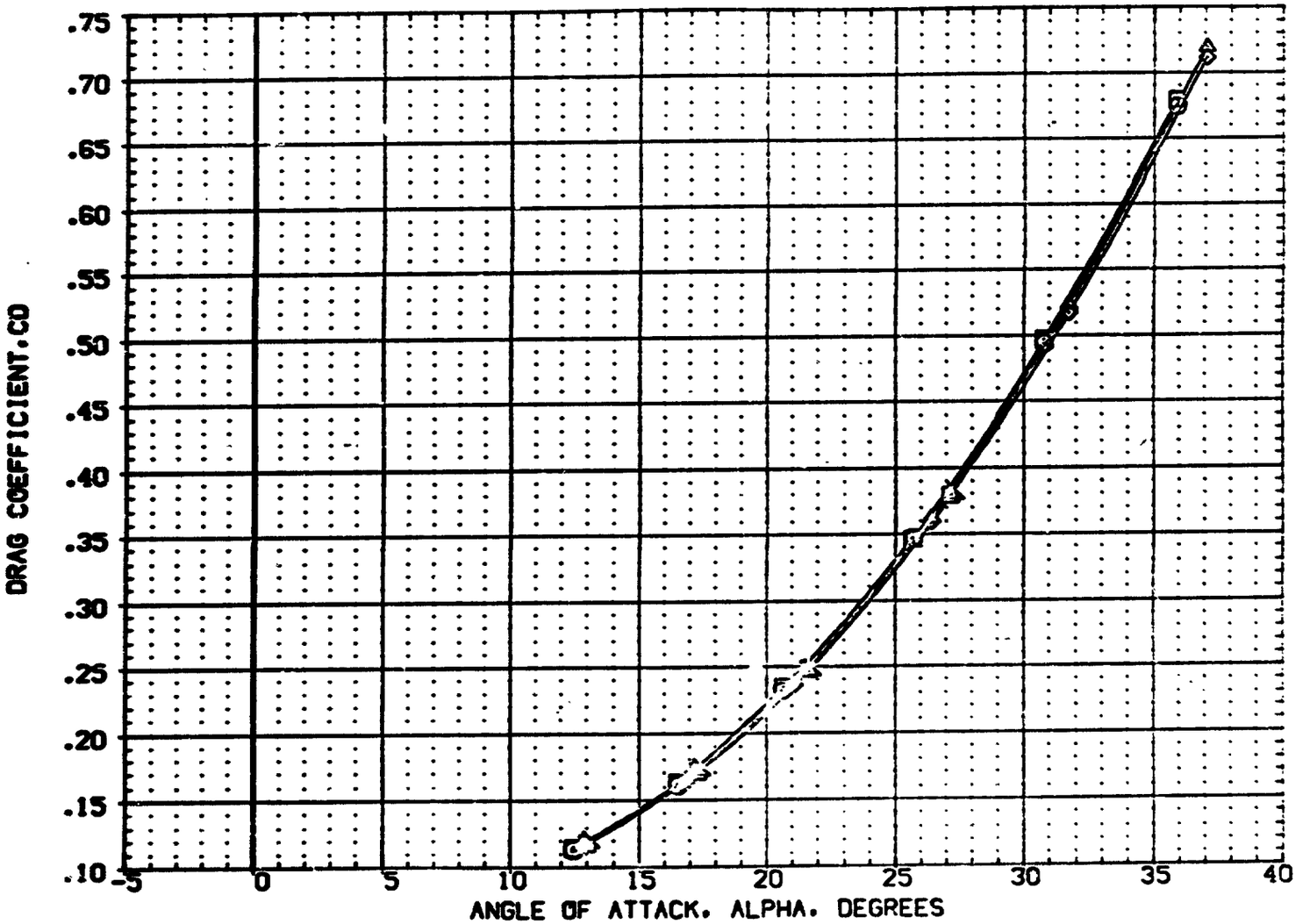
EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPH021)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	1.000
(CPH040)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	1.000
(CPH024)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(CPH043)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(CPH025)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	5.000
(CPH044)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

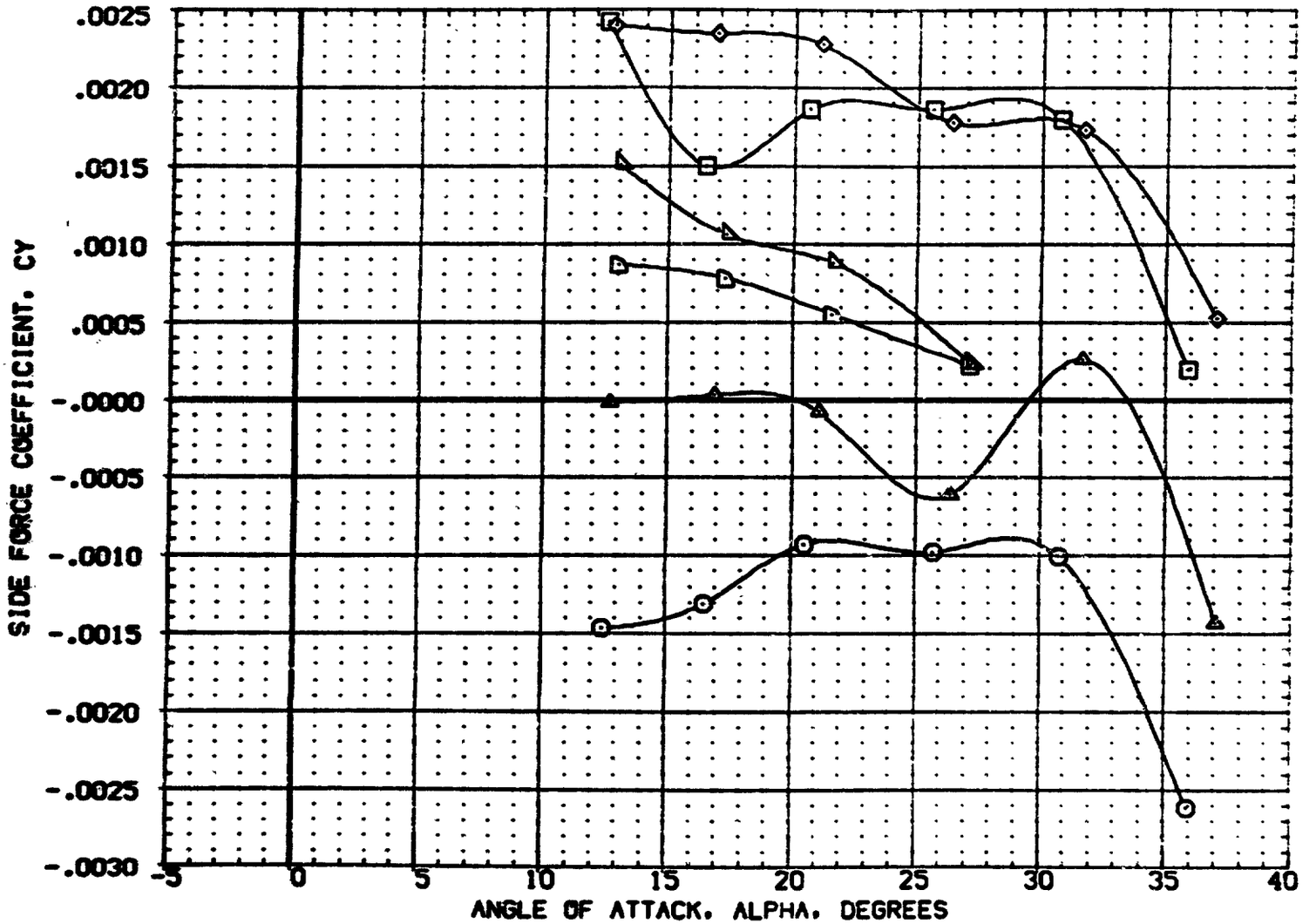


EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

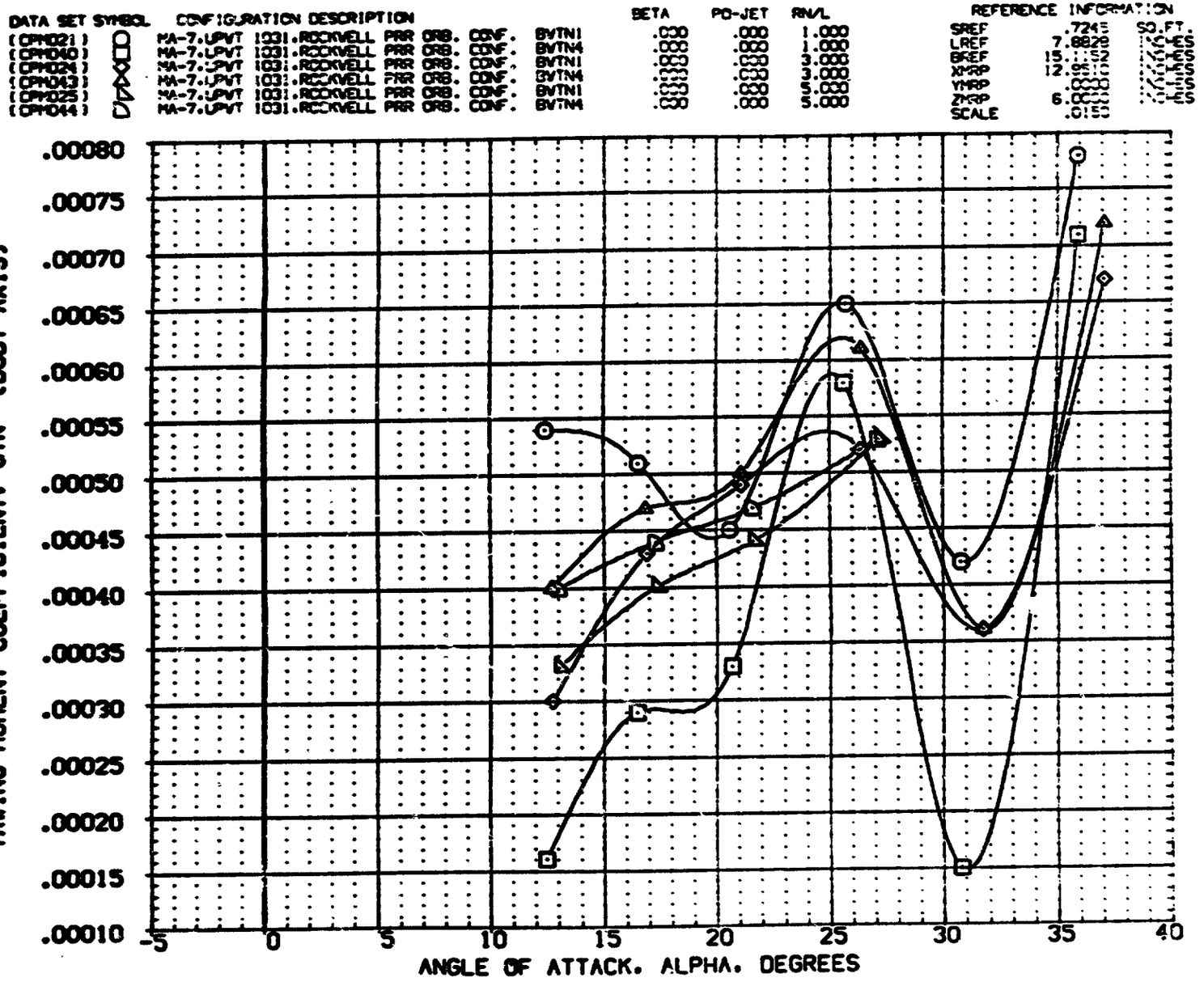
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	1.000
(CPM040)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	1.000
(CPM024)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	3.000
(CPM043)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	3.000
(CPM025)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	5.000
(CPM044)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	5.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00



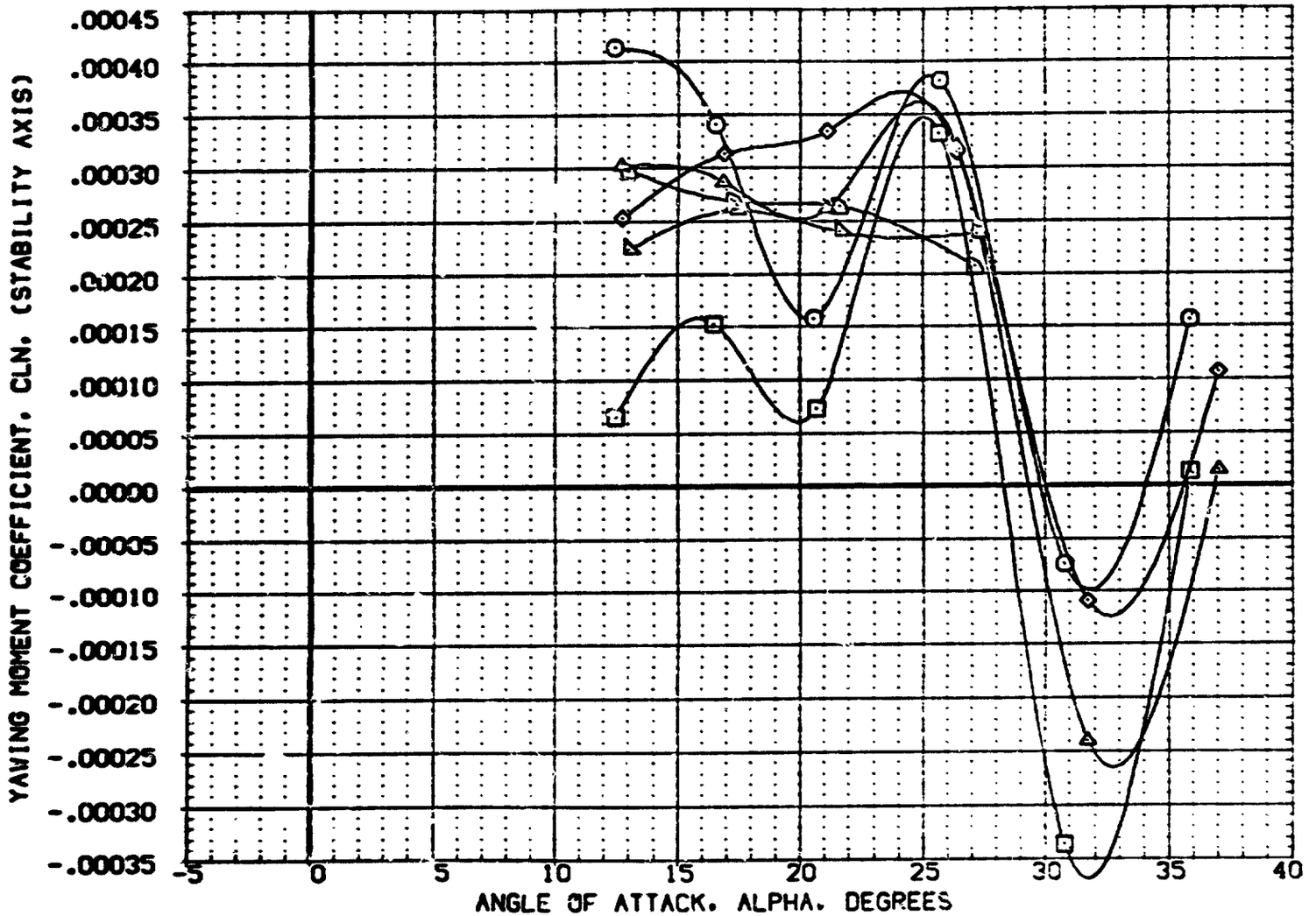
EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPHC21)	□	MA-7.UPVT 1031.ROCKWELL PRR CAB. CONF.	BVTN1	.000	.000	1.000
(CPHC40)	□	MA-7.UPVT 1031.ROCKWELL PRR CAB. CONF.	BVTN4	.000	.000	1.000
(CPHC24)	◇	MA-7.UPVT 1031.ROCKWELL PRR CAB. CONF.	BVTN1	.000	.000	3.000
(CPHC43)	△	MA-7.UPVT 1031.ROCKWELL PRR CAB. CONF.	BVTN4	.000	.000	3.000
(CPHC25)	▽	MA-7.UPVT 1031.ROCKWELL PRR CAB. CONF.	BVTN1	.000	.000	5.000
(CPHC44)	▽	MA-7.UPVT 1031.ROCKWELL PRR CAB. CONF.	BVTN4	.000	.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

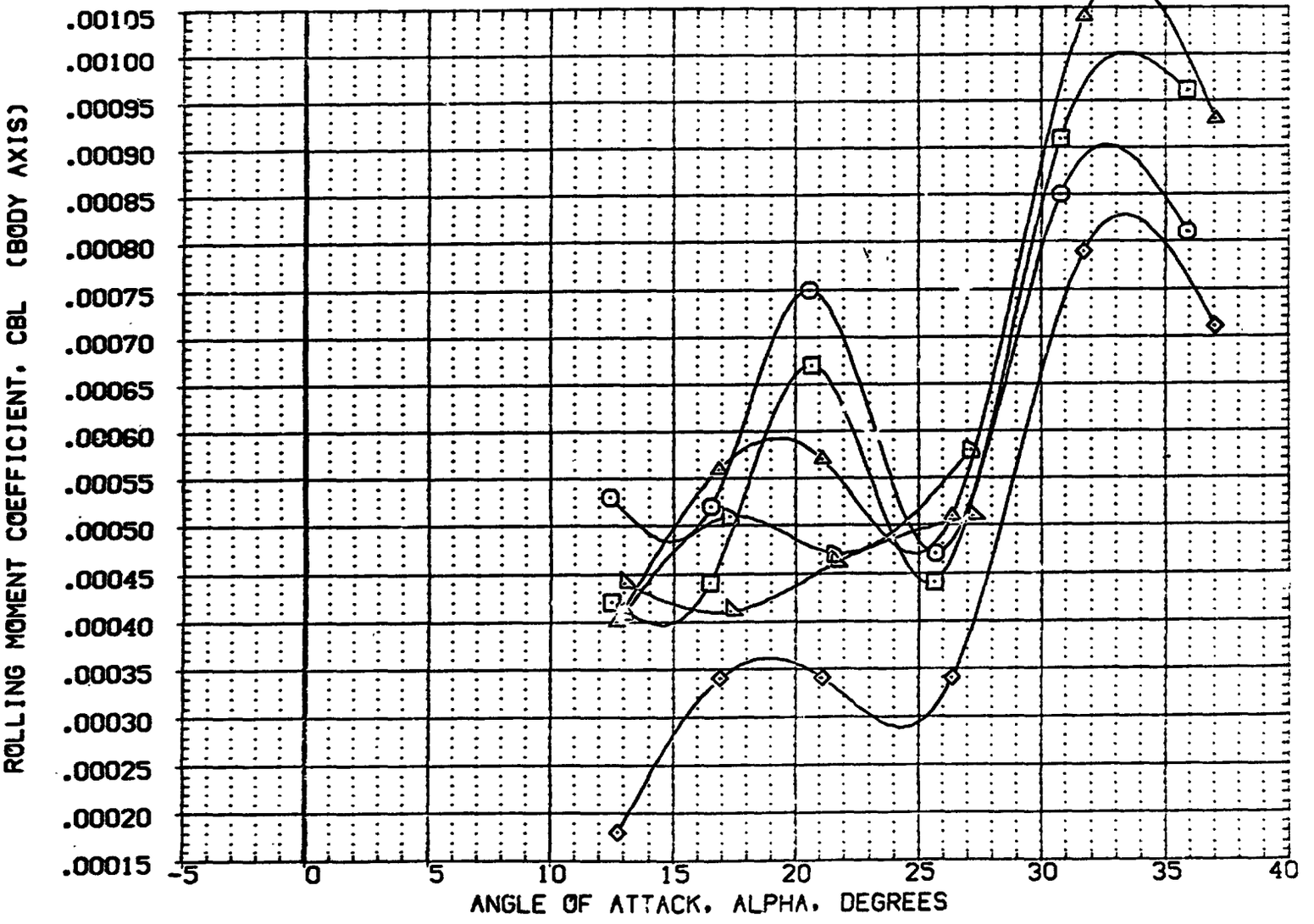


EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PC-JET	RN/L
(CPM021)	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	1.000
(CPM040)	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	1.000
(CPM024)	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	3.000
(CPM043)	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	3.000
(CPM025)	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	5.000
(CPM044)	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	5.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9516	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

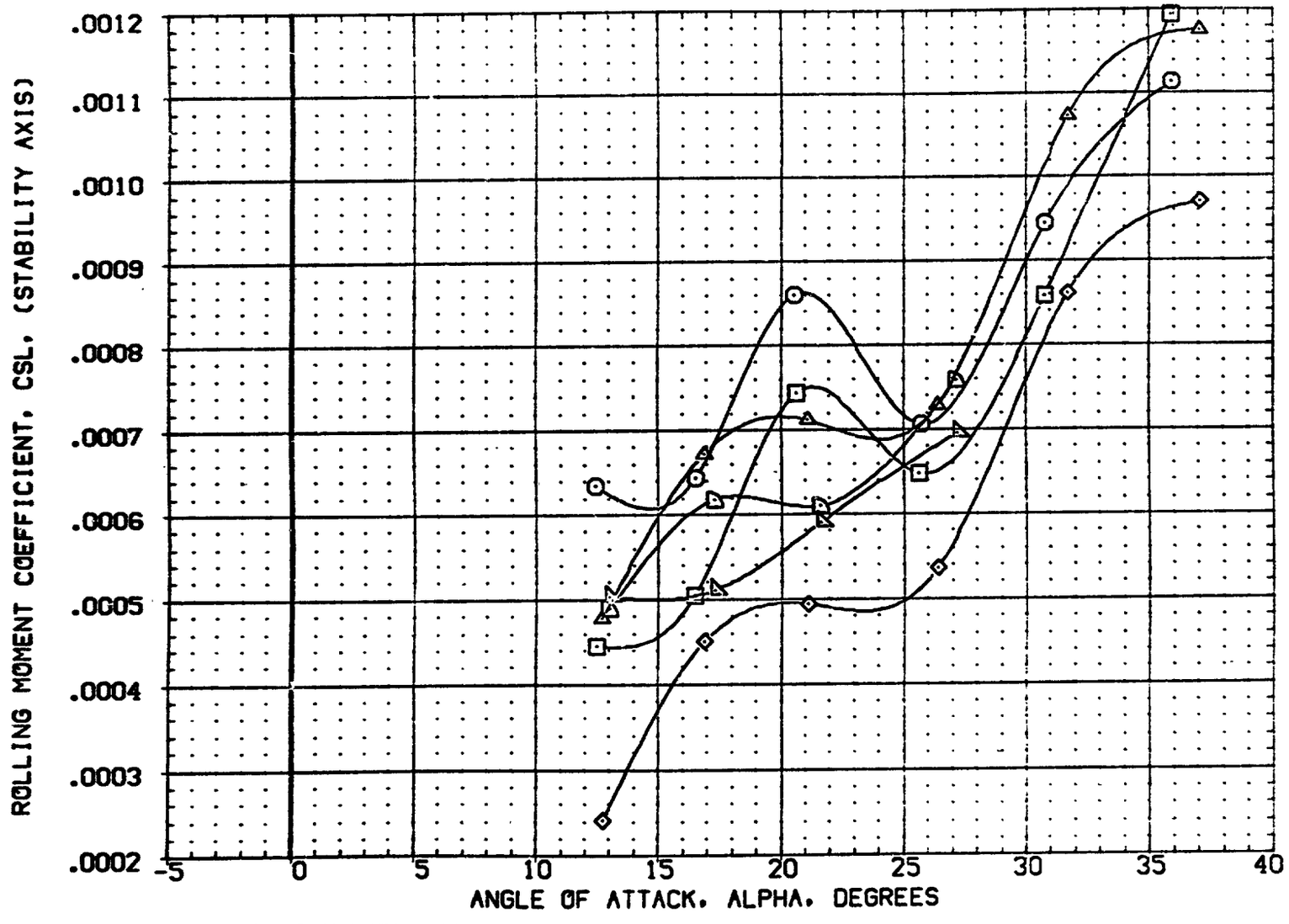


EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM021)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	1.000
(CPM040)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	1.000
(CPM024)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(CPM043)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000
(CPM025)	▷	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	5.000
(CPM044)	▷	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	5.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



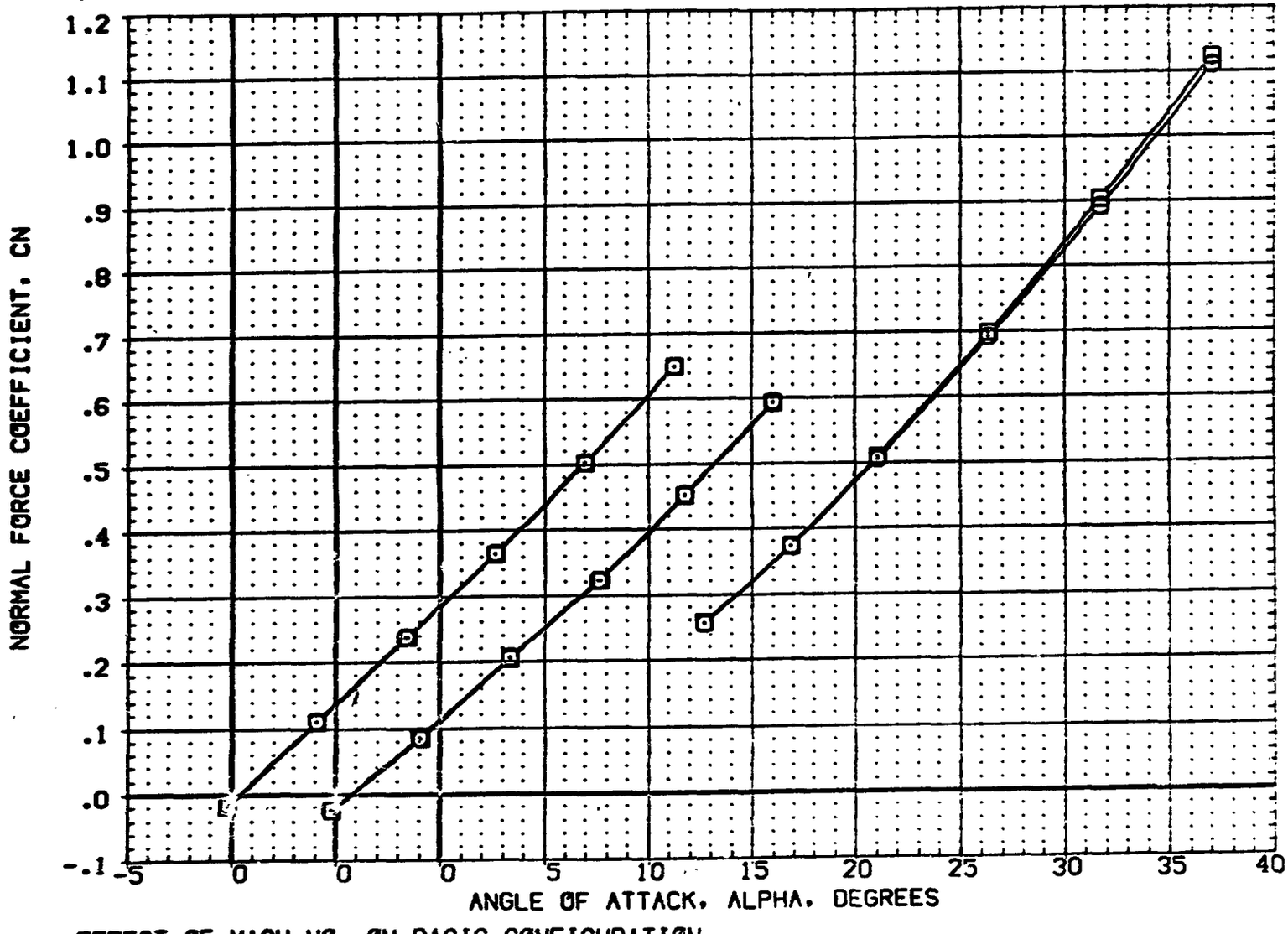
EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(BPM016)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	3.000
(BPM036)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



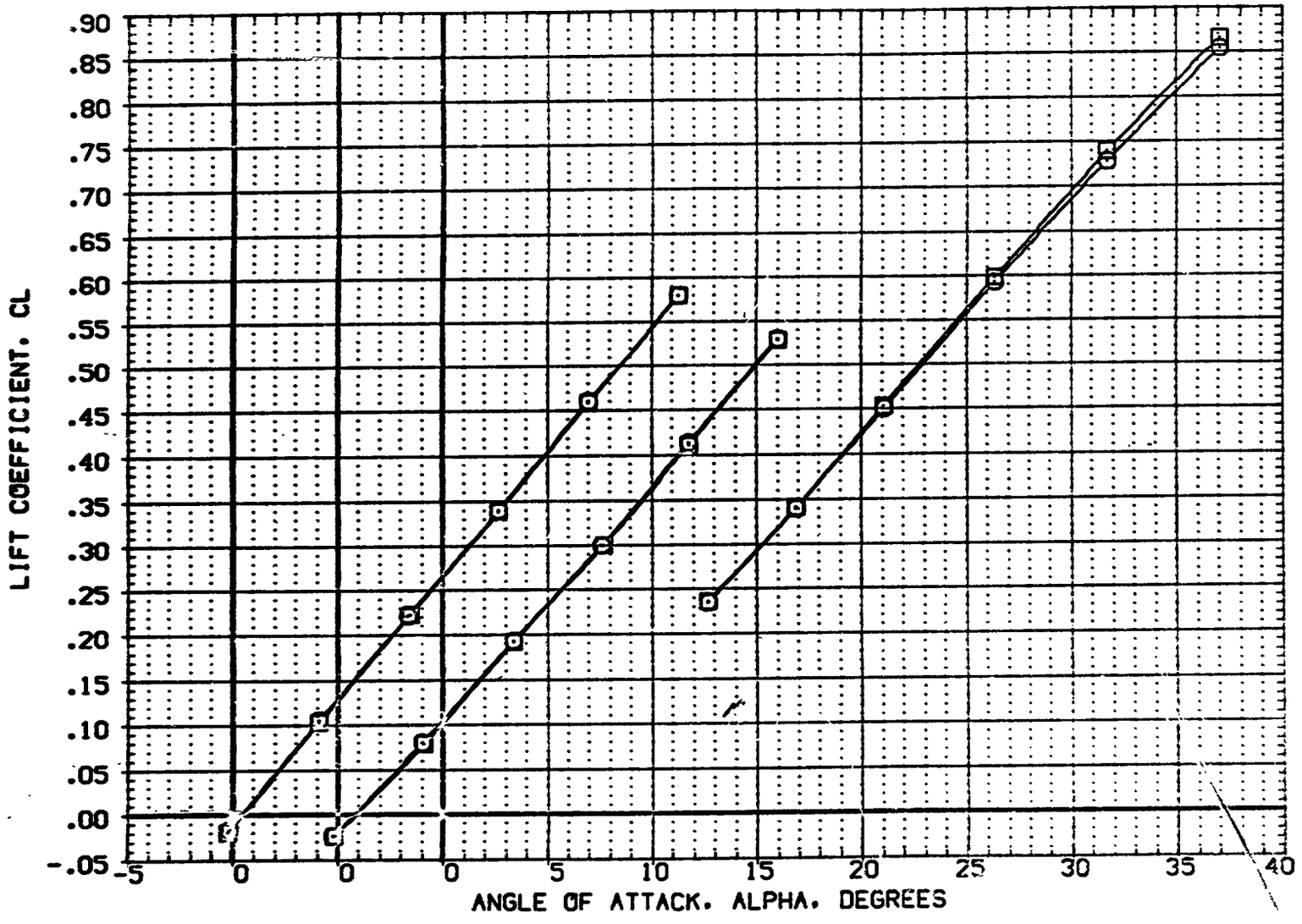
EFFECT OF MACH NO. ON BASIC CONFIGURATION

(A)MACH = 2.50 (B) 2.95 (C) 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016)	8	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036)	8	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



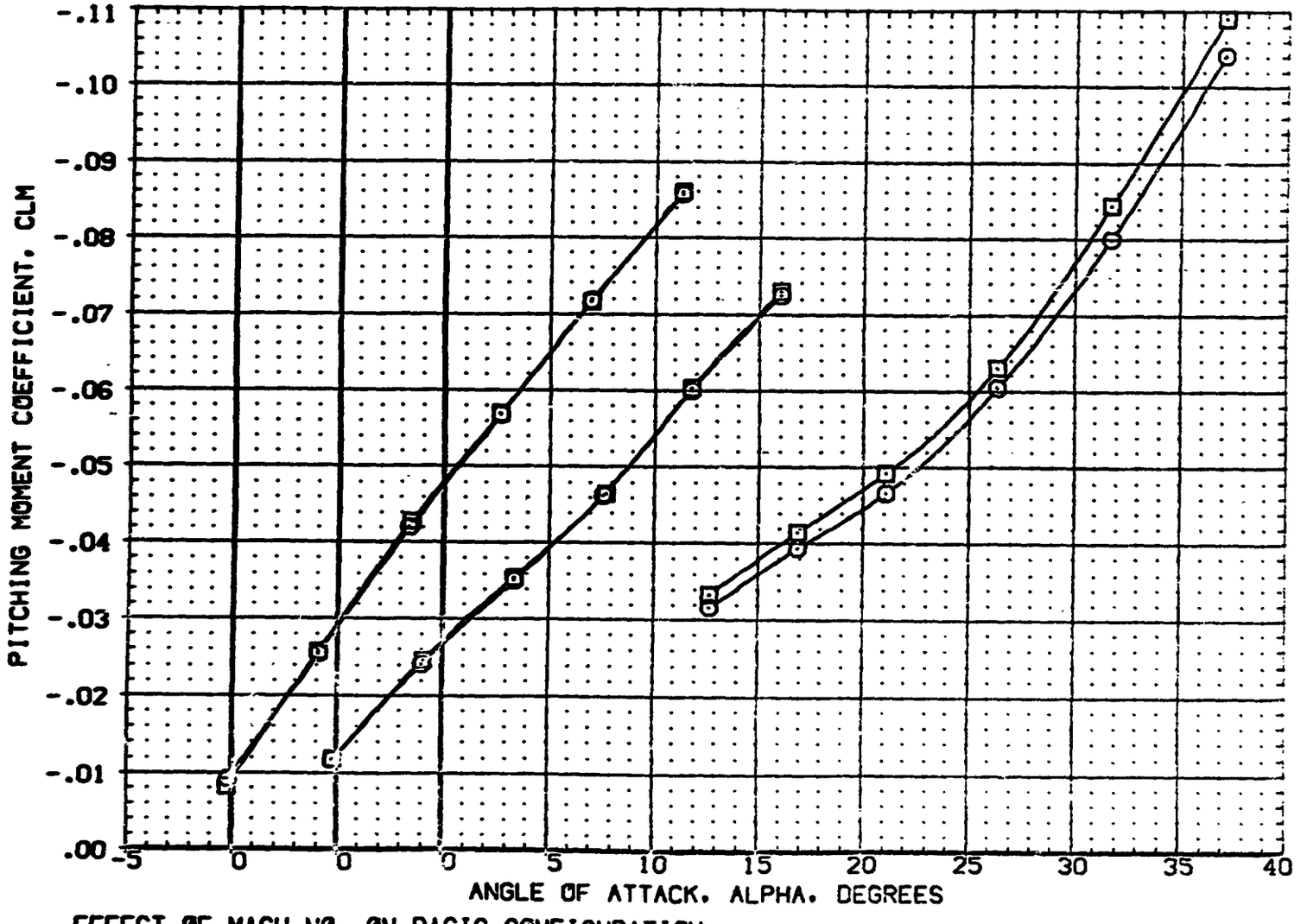
EFFECT OF MACH NO. ON BASIC CONFIGURATION

(A)MACH = 2.50 (B) 2.95 (C) 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(BPM016)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	3.000
(BPM036)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



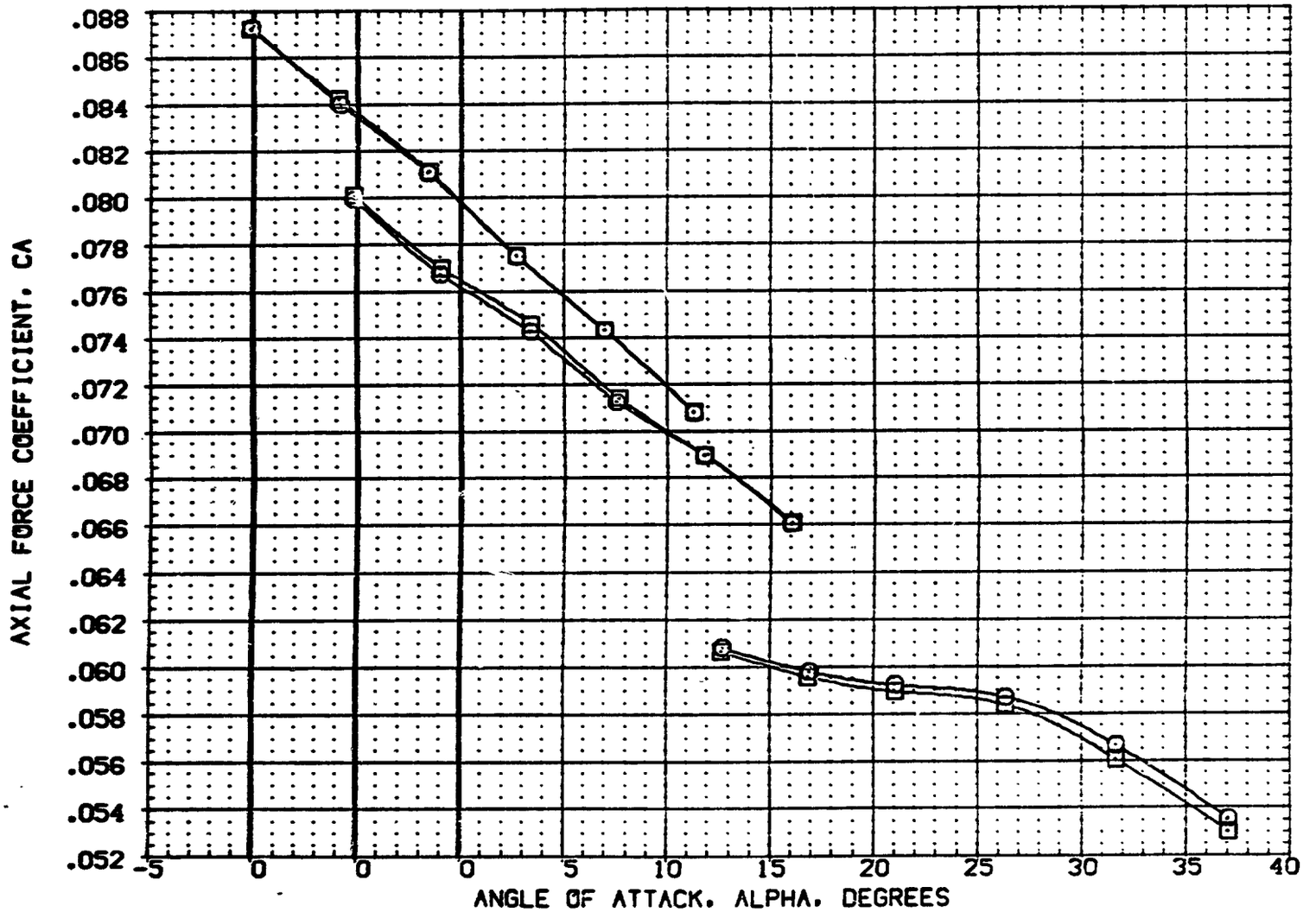
EFFECT OF MACH NO. ON BASIC CONFIGURATION

(A)MACH = 2.50 (B) 2.95 (C) 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



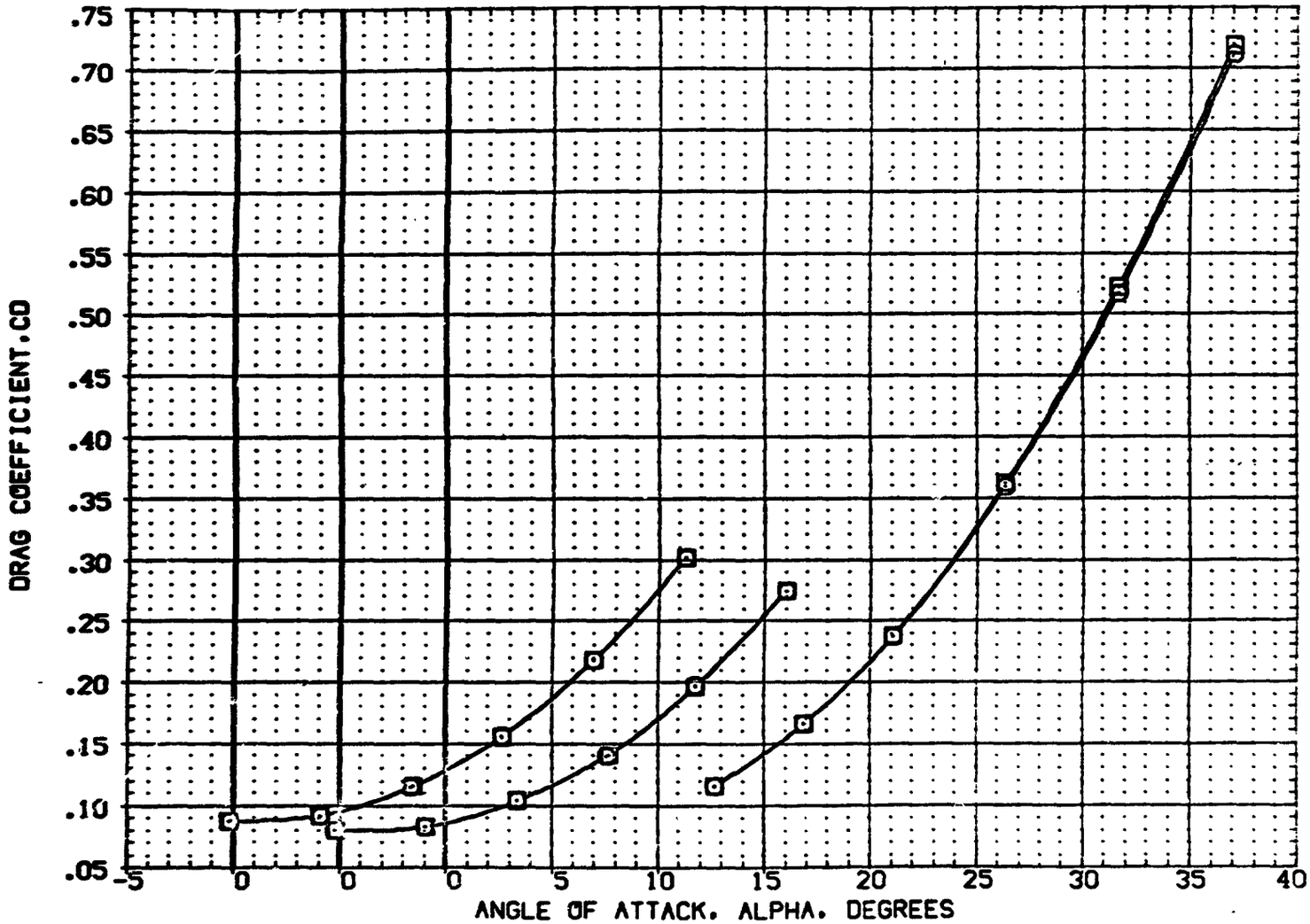
EFFECT OF MACH NO. ON BASIC CONFIGURATION

(A)MACH = 2.50 (B) 2.95 (C) 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(BPM016) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	3.000
(BPM036) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

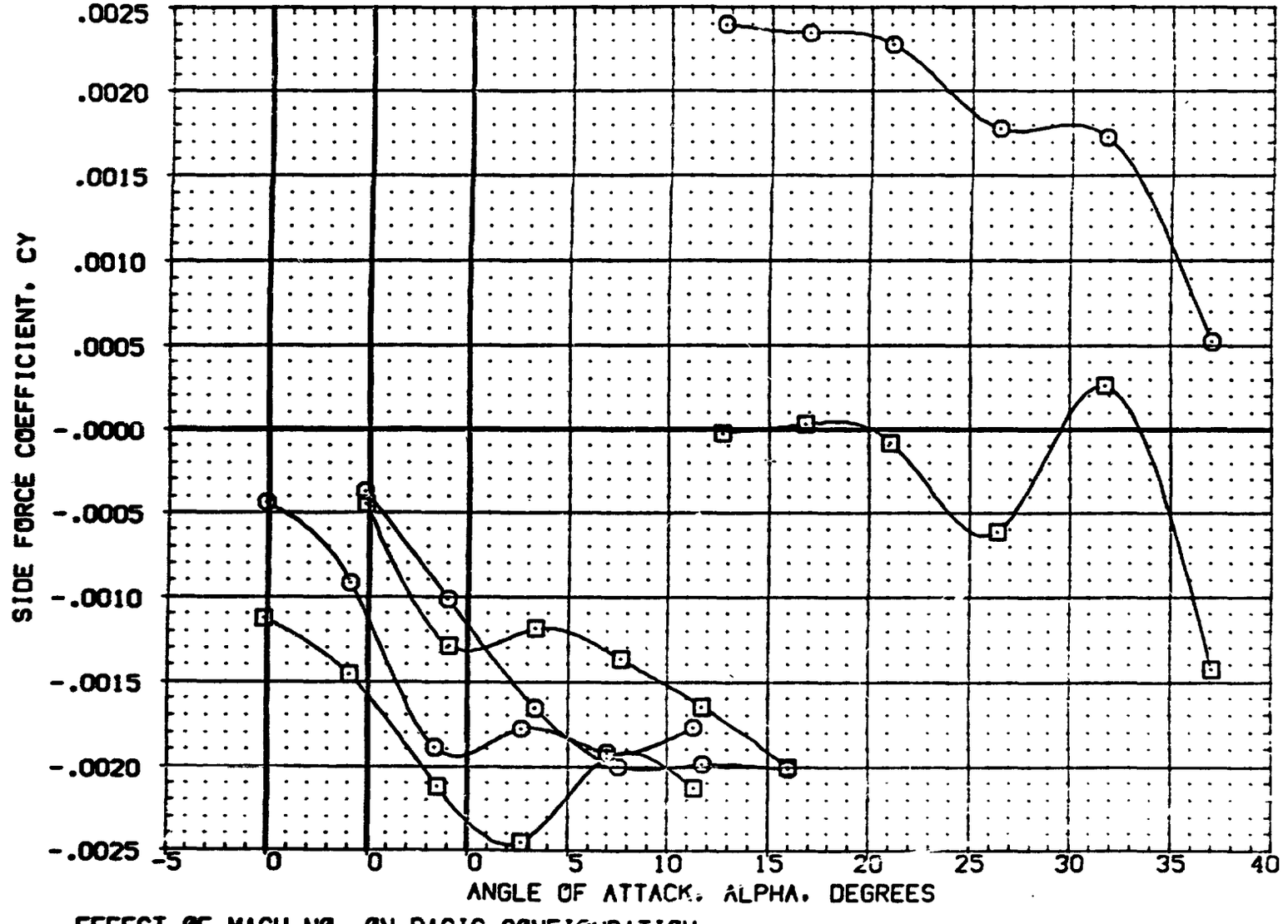


EFFECT OF MACH NO. ON BASIC CONFIGURATION

(A)MACH = 2.50 (B) 2.95 (C) 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(BPM016) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	3.000
(BPM036) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	3.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



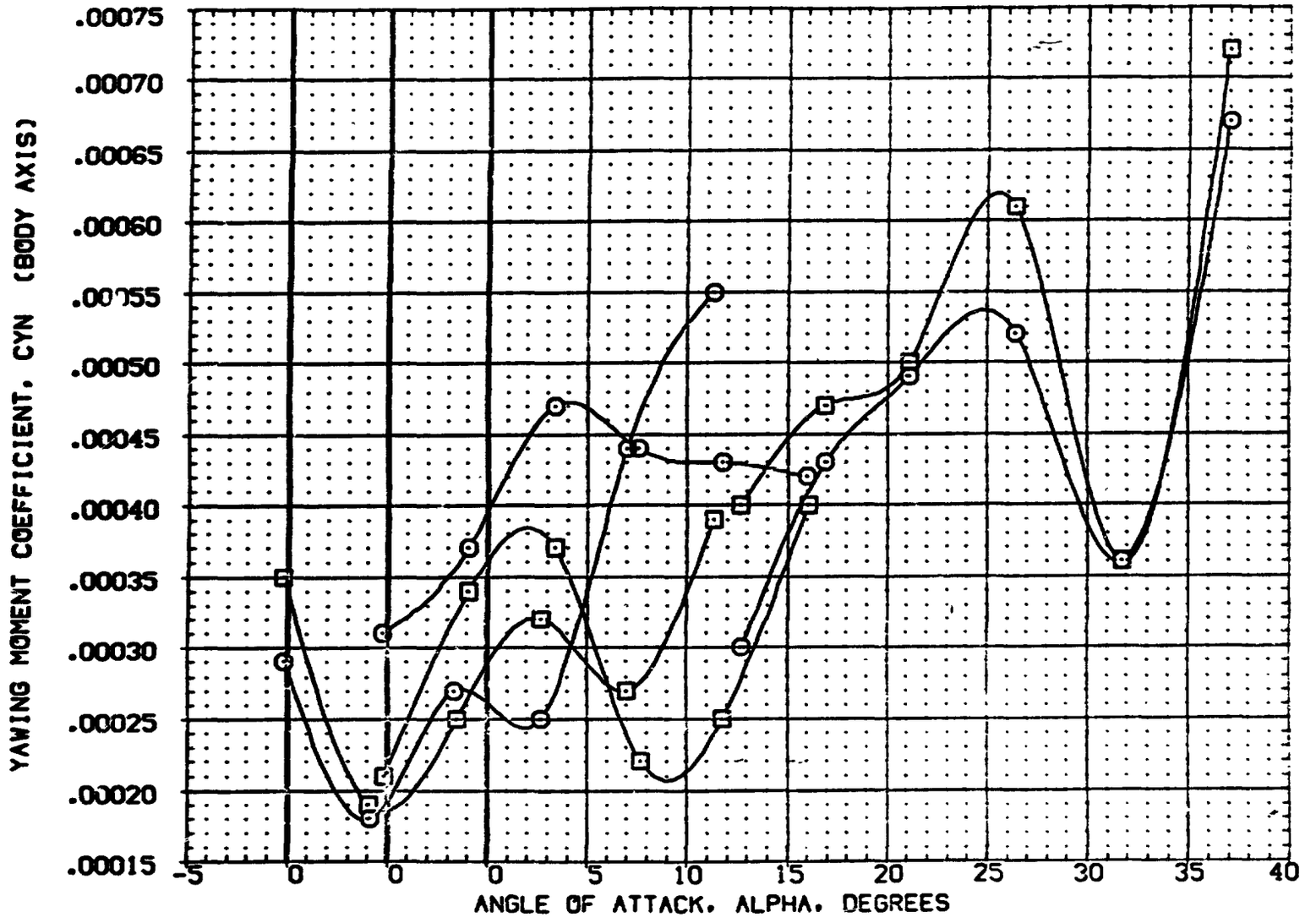
EFFECT OF MACH NO. ON BASIC CONFIGURATION

(A)MACH = 2.50 (B) 2.95 (C) 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPH016)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPH036)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



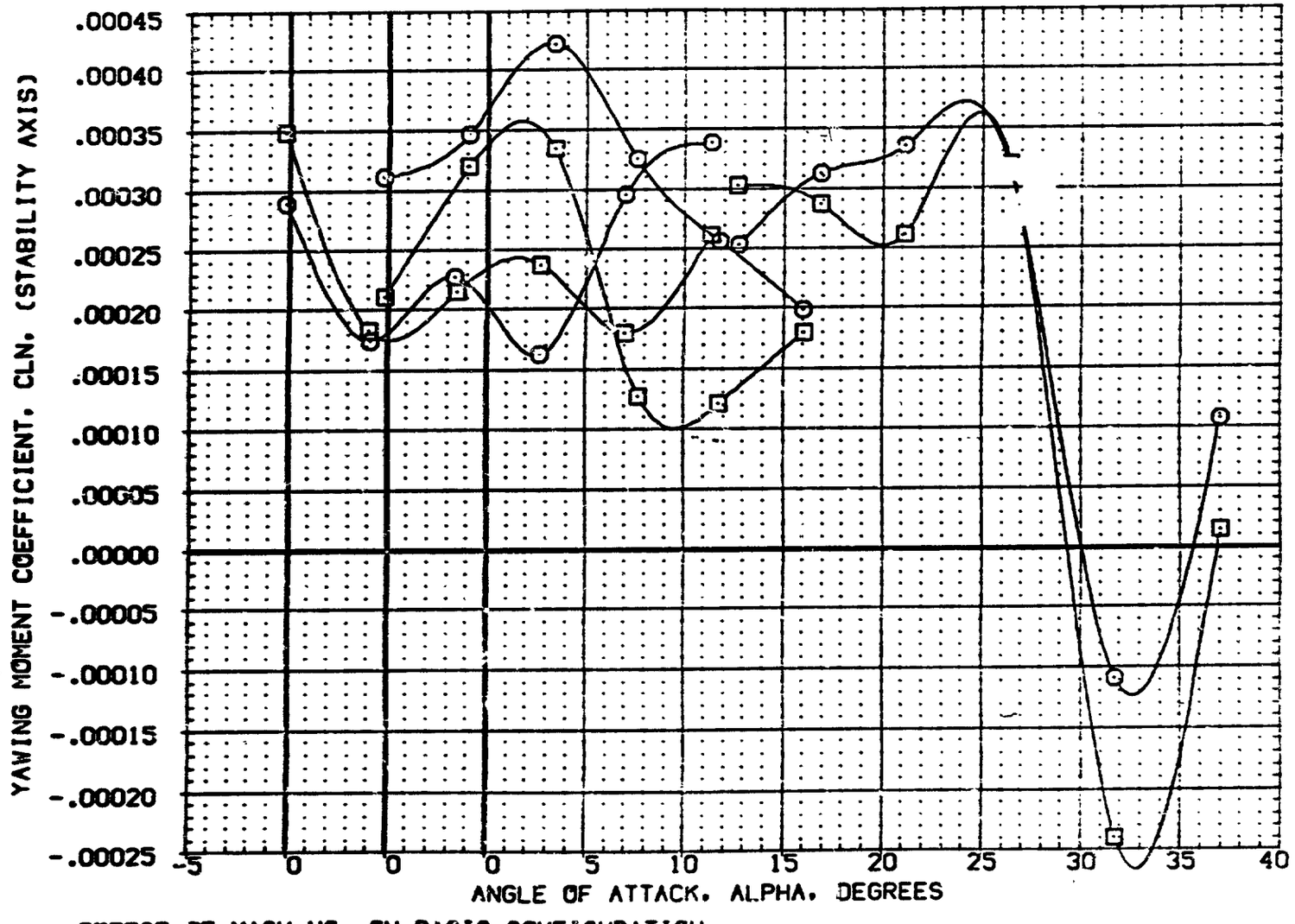
EFFECT OF MACH NO. ON BASIC CONFIGURATION

(A)MACH = 2.50 (B) 2.95 (C) 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(BPM016) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	.000	3.000
(BPM036) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.9829	INCHES
BREF	15.[illegible]52	INCHES
XMRP	12.[illegible]510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

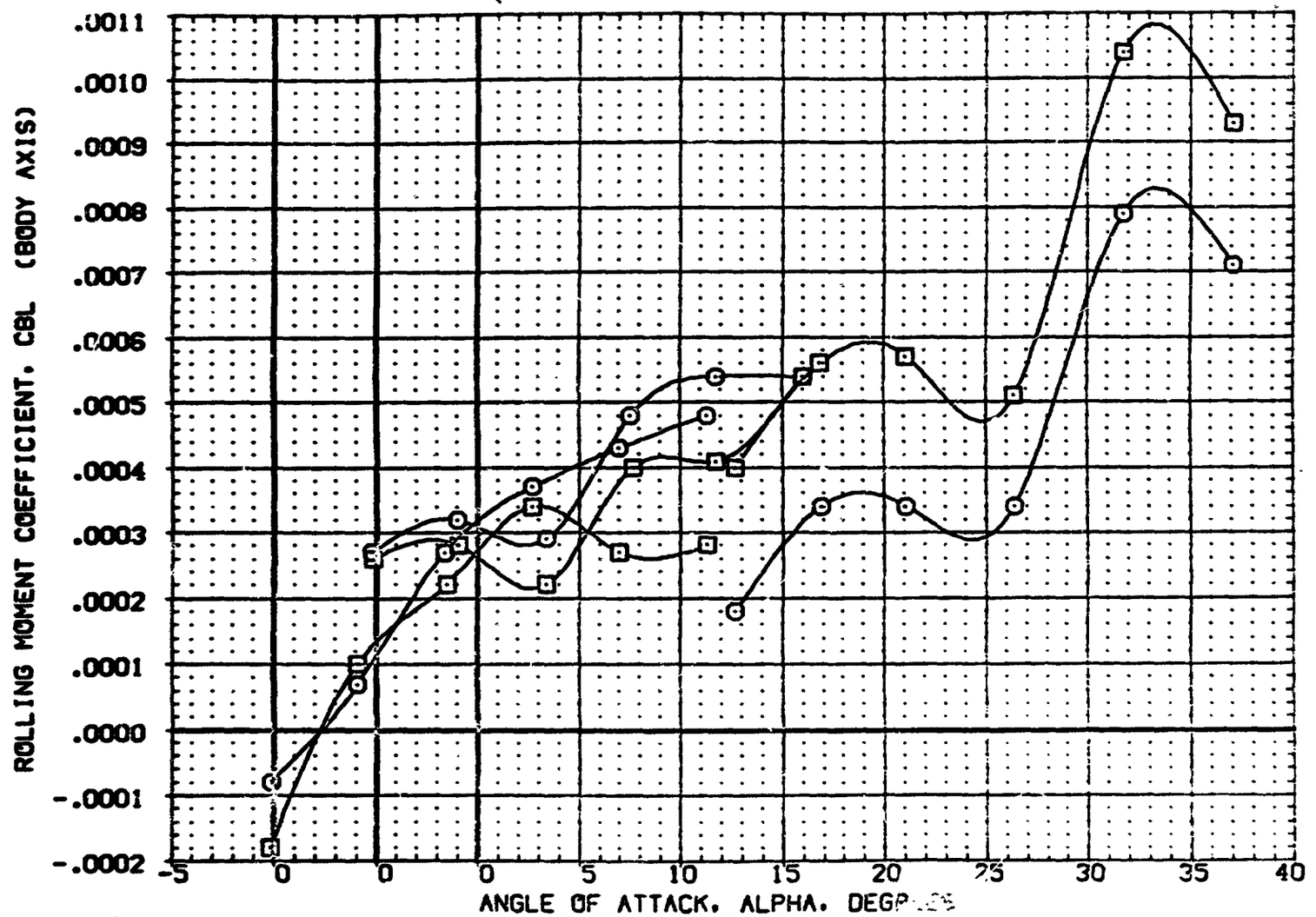


EFFECT OF MACH NO. ON BASIC CONFIGURATION

(A)MACH = 2.50 (B) 2.95 (C) 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(BPM016)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN1	.000	.000	3.000
(BPM036)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	.000	3.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.3510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



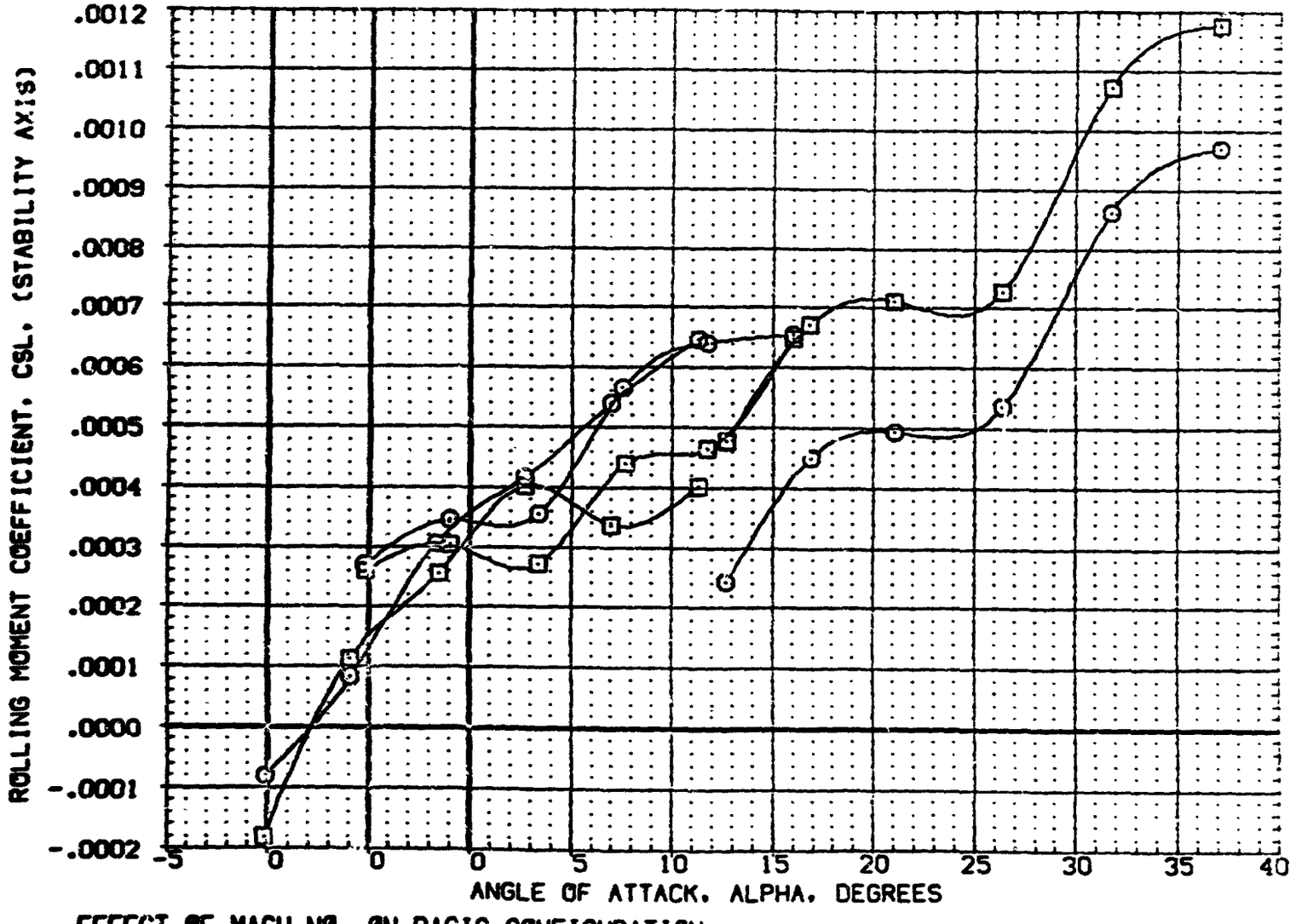
EFFECT OF MACH NO. ON BASIC CONFIGURATION

(A)MACH = 2.50 (B) 2.95 (C) 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(BPM016)	8	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	3.000
(BPM036)	8	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



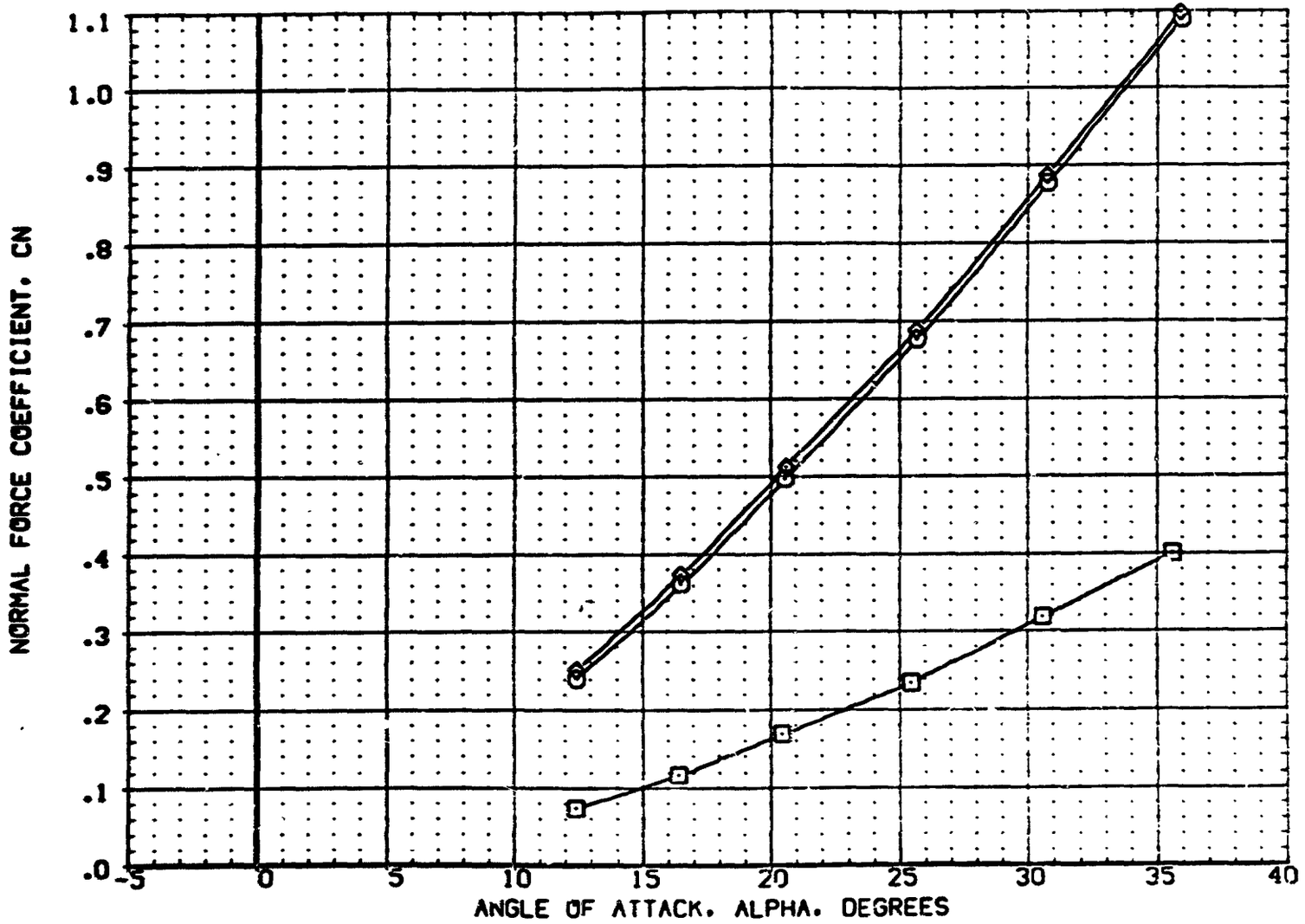
EFFECT OF MACH NO. ON BASIC CONFIGURATION

(A)MACH = 2.50 (B) 2.95 (C) 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPH058)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	1.000
(CPH004)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	.000	1.000
(CPH070)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



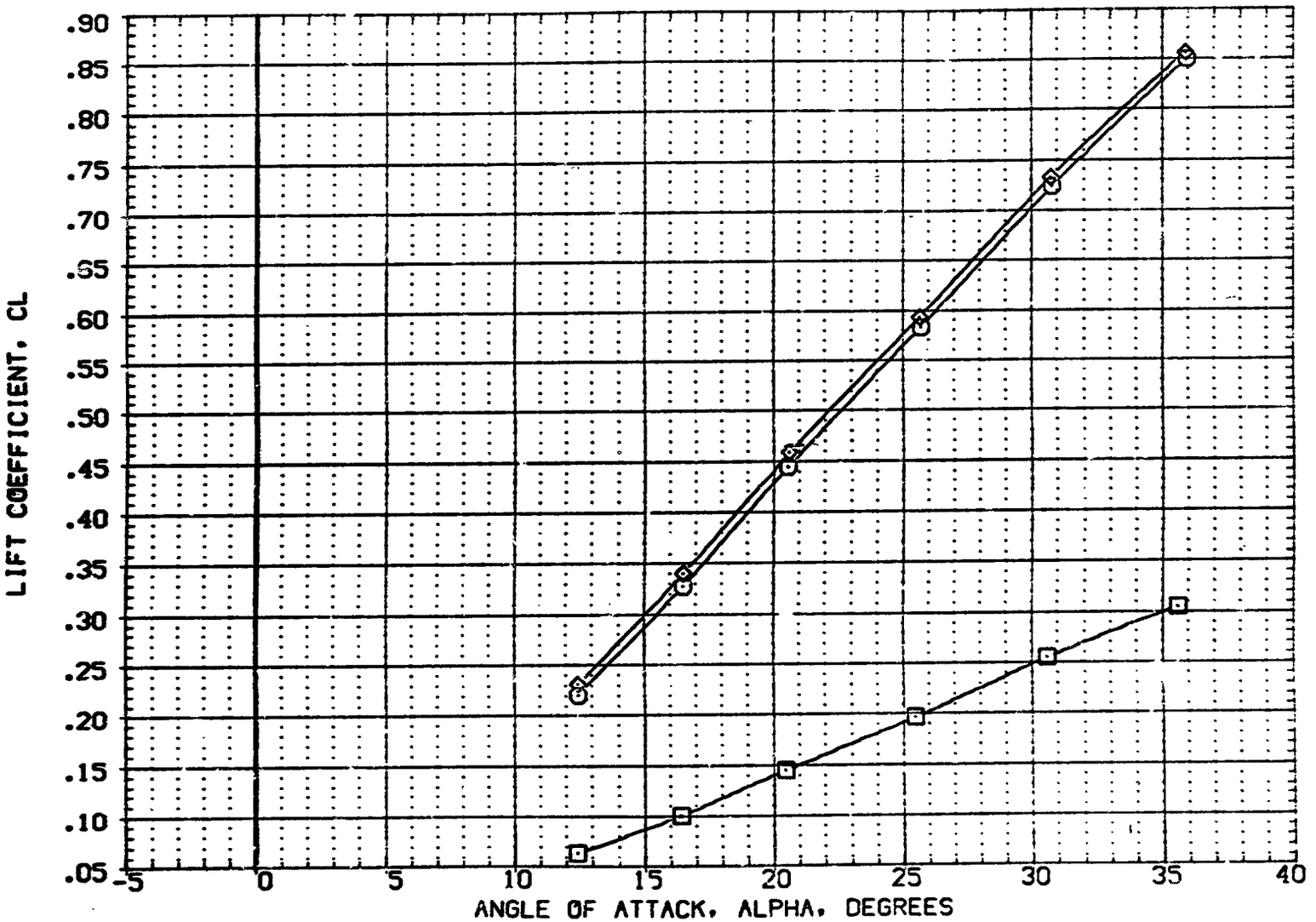
EFFECT OF WING

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM078)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	1.000
(CPM004)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	.000	1.000
(CPM070)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



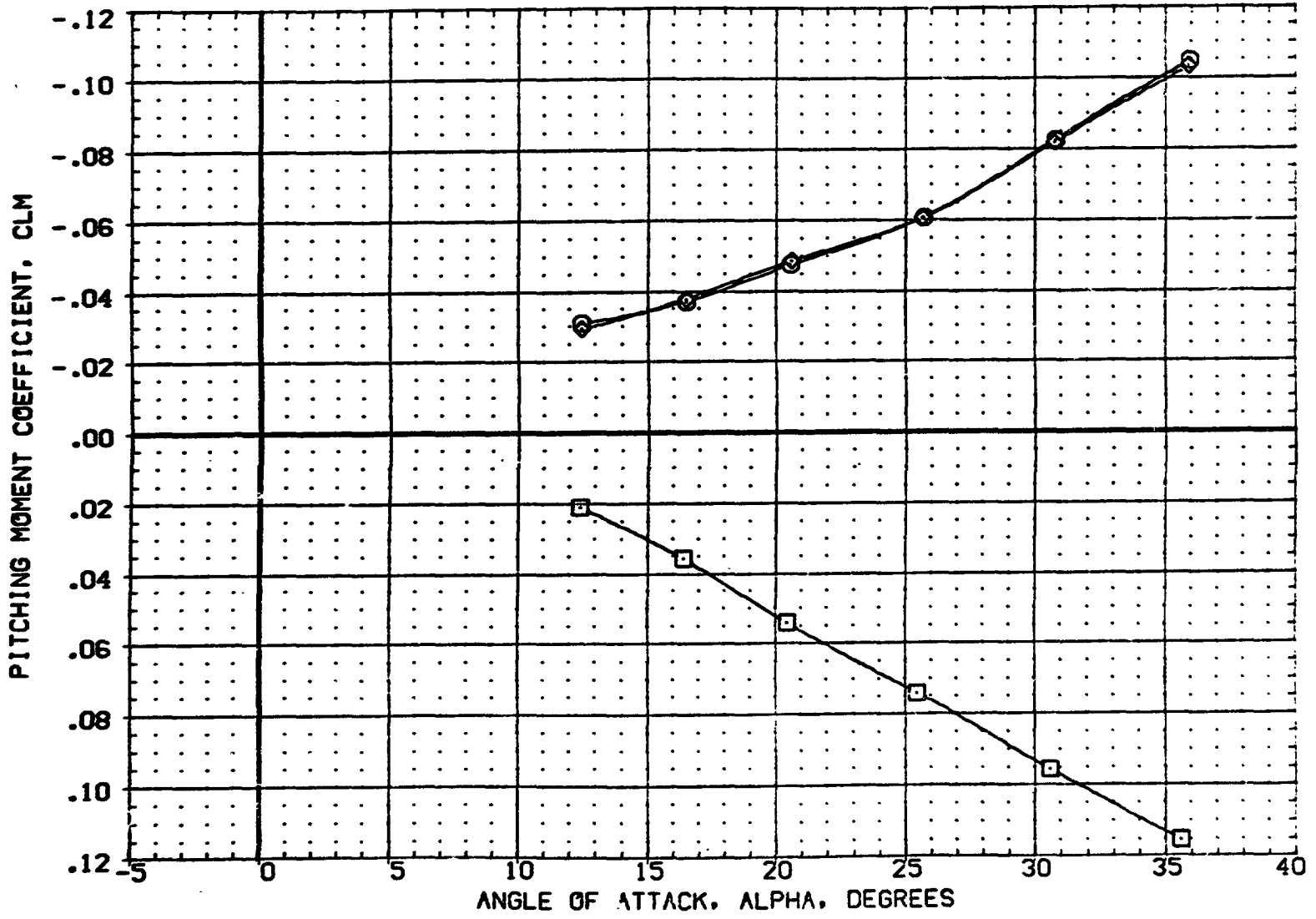
EFFECT OF WING

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM058)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN40	.000	.000	1.000
(CPM004)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	.000	1.000
(CPM070)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN41	.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9516	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



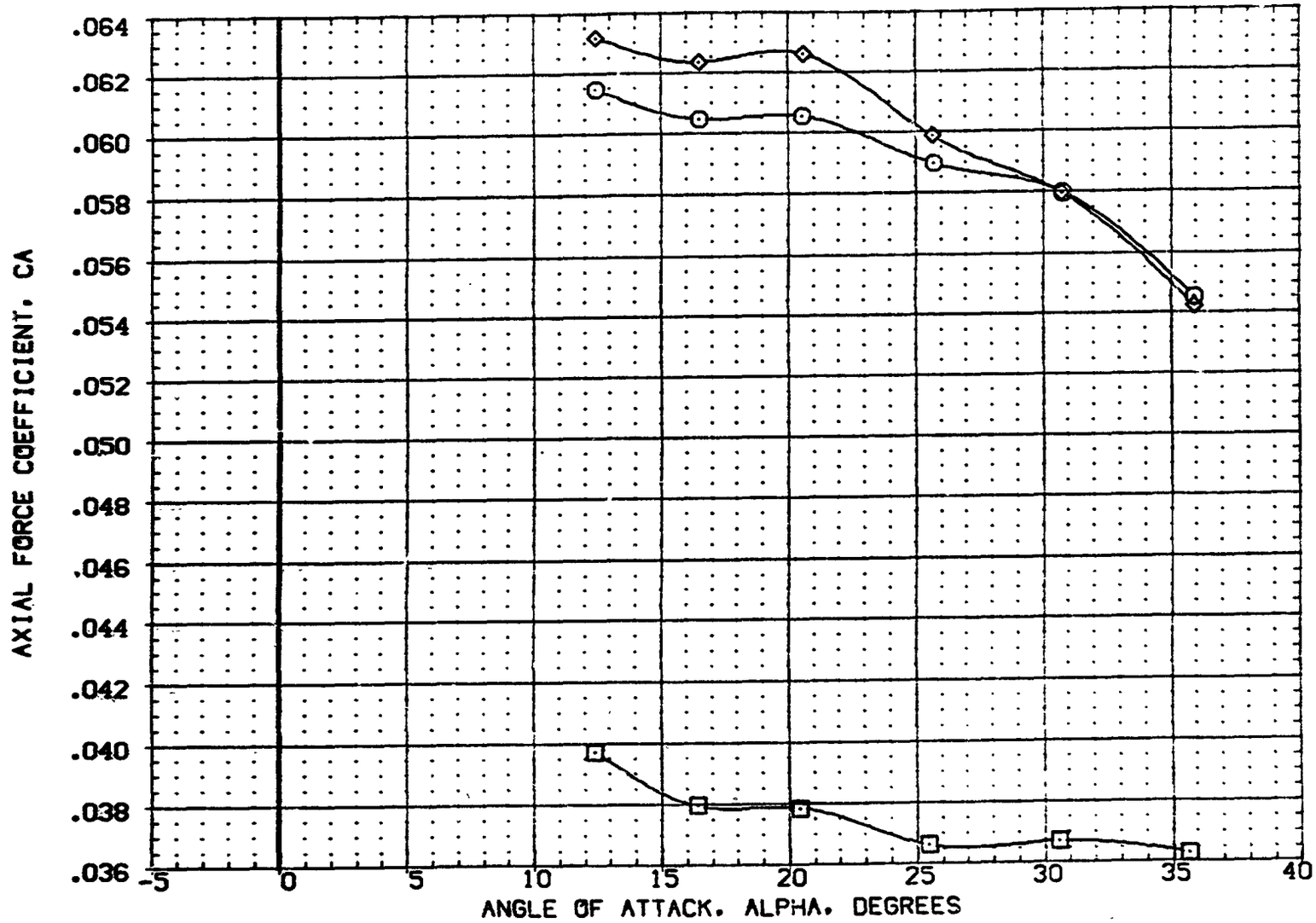
EFFECT OF WING

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM058)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	.000	1.000
(CPM004)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BTN40	.000	.000	1.000
(CPM070)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN41	.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



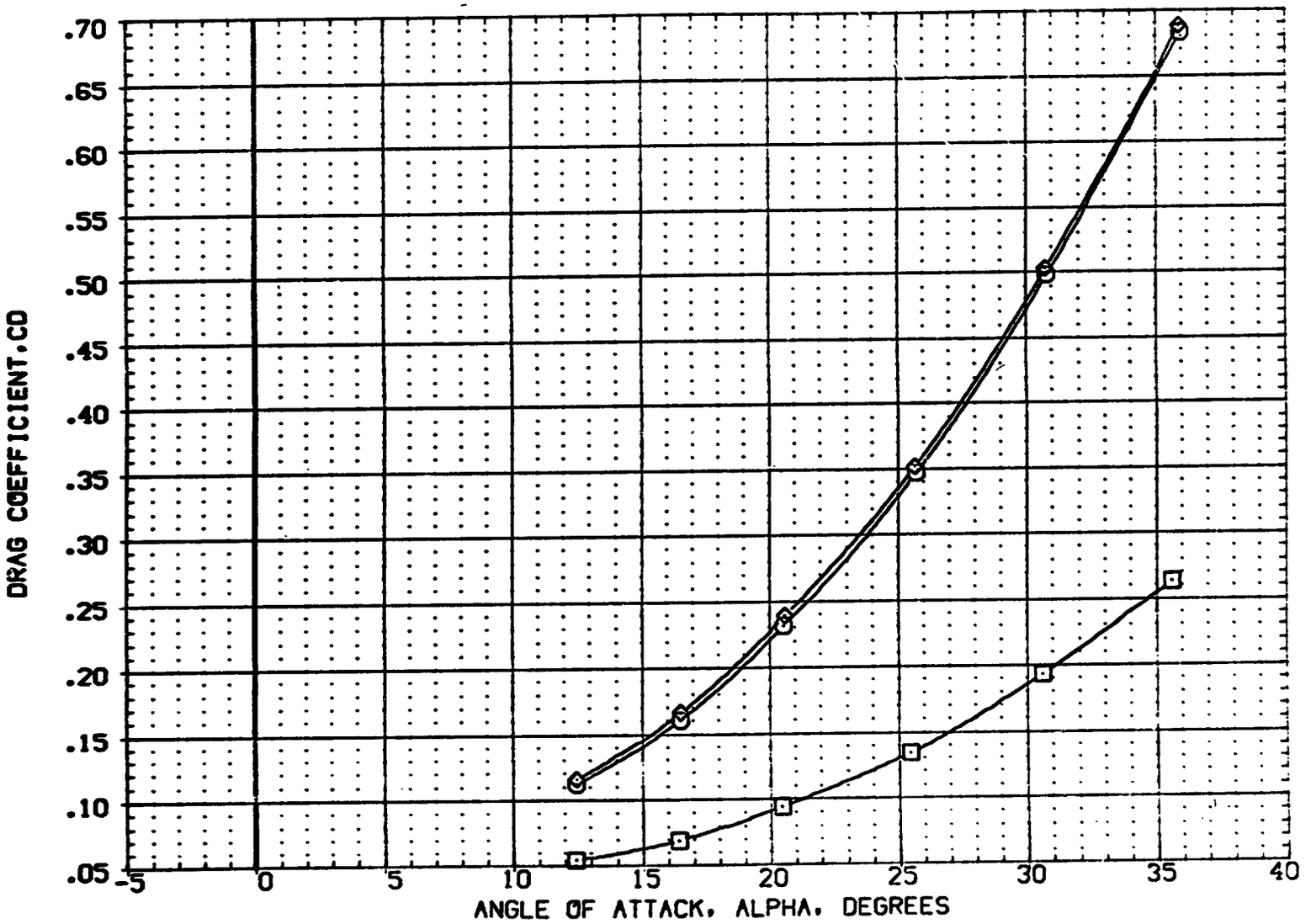
EFFECT OF WING

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM058) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	.000	1.000
(CPM004) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	.000	1.000
(CPM070) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

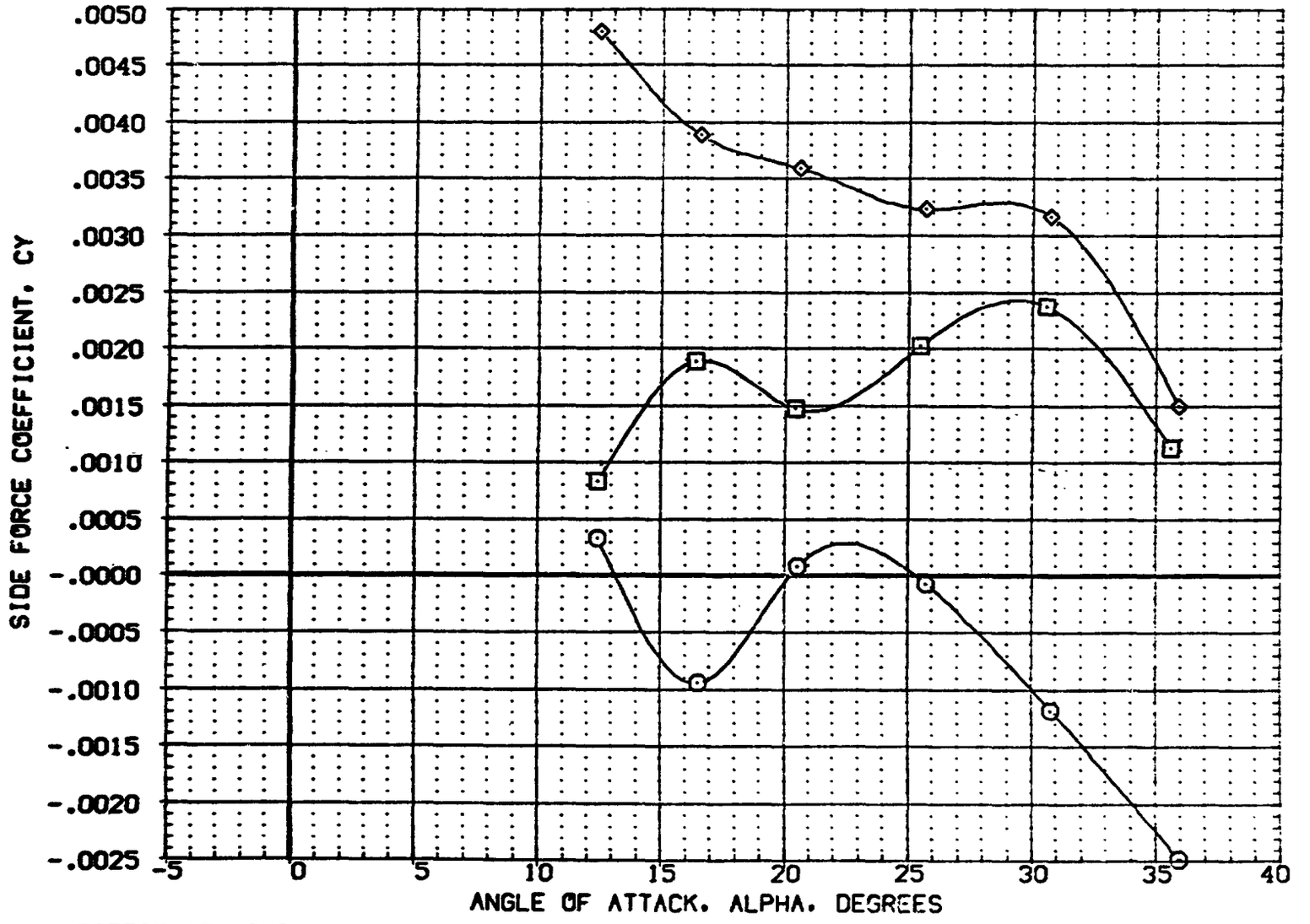


EFFECT OF WING

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM058)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	1.000
(CPM004)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	.000	1.000
(CPM070)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.9828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

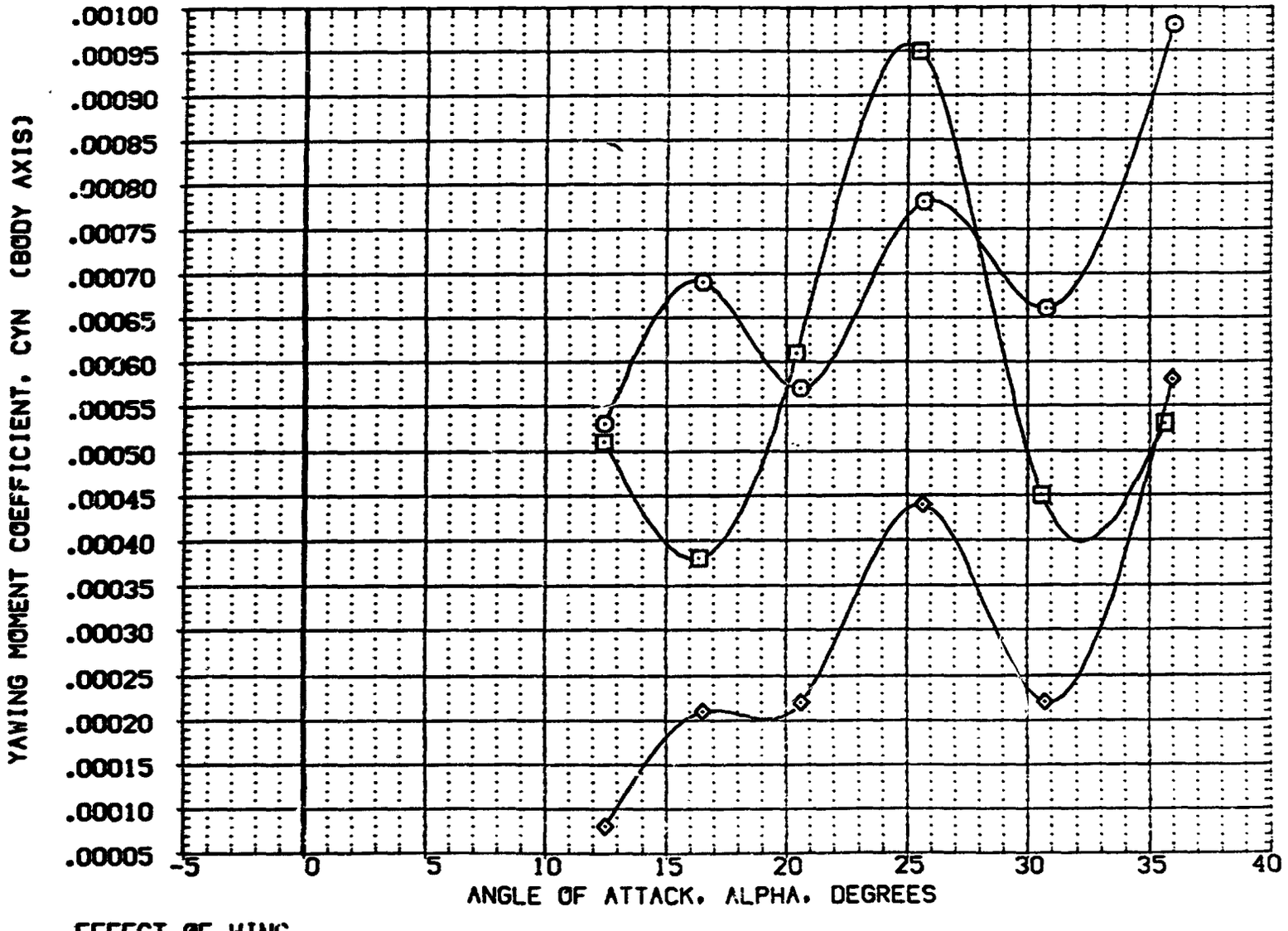


EFFECT OF WING

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM058) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	1.000
(CPM004) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	.000	1.000
(CPM070) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



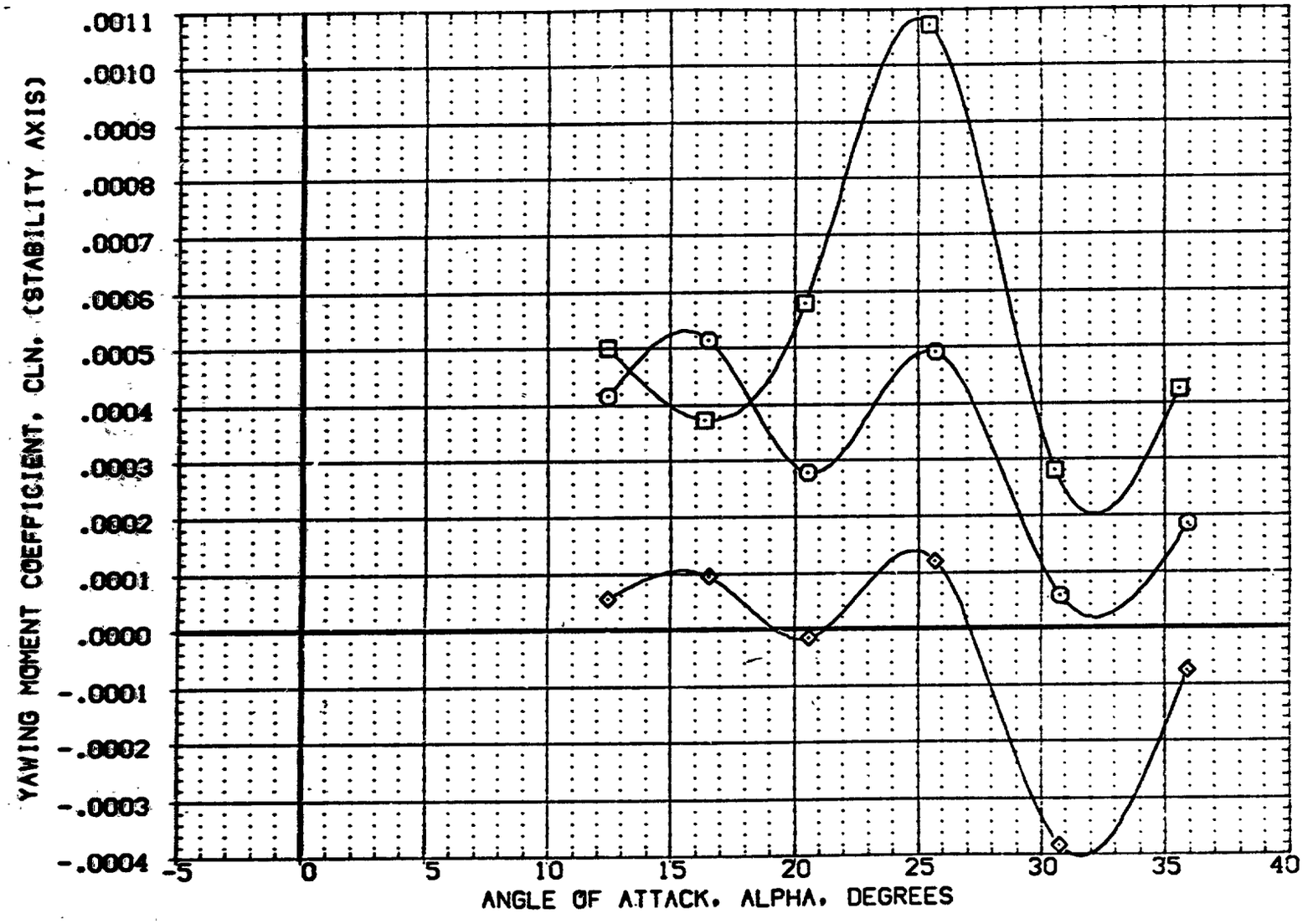
EFFECT OF WING

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM058) ○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN40	.000	.000	1.000
(CPM004) □	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BTN40	.000	.000	1.000
(CPM070) ◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



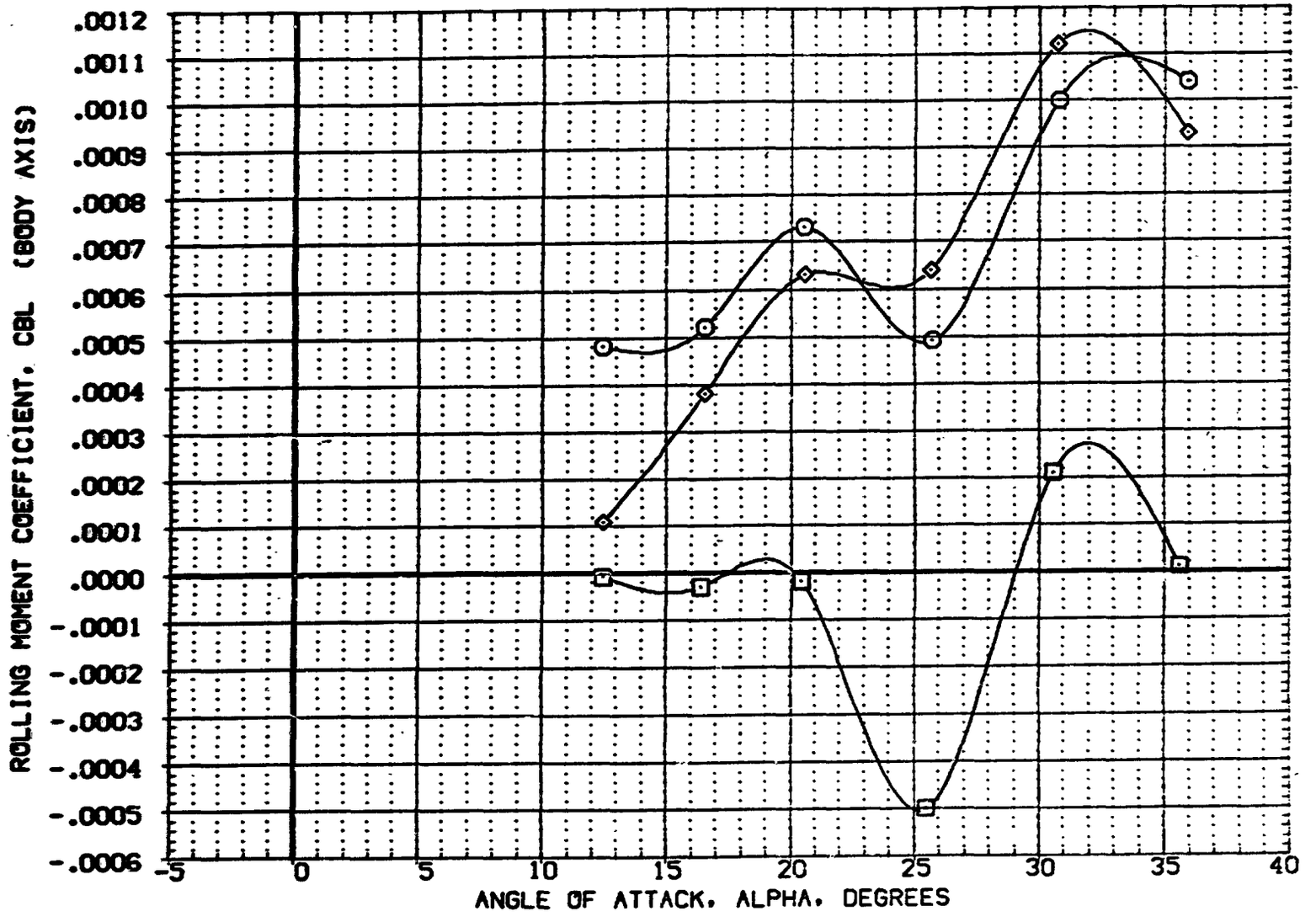
EFFECT OF WING

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPH058) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	1.000
(CPH004) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	.000	1.000
(CPH070) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



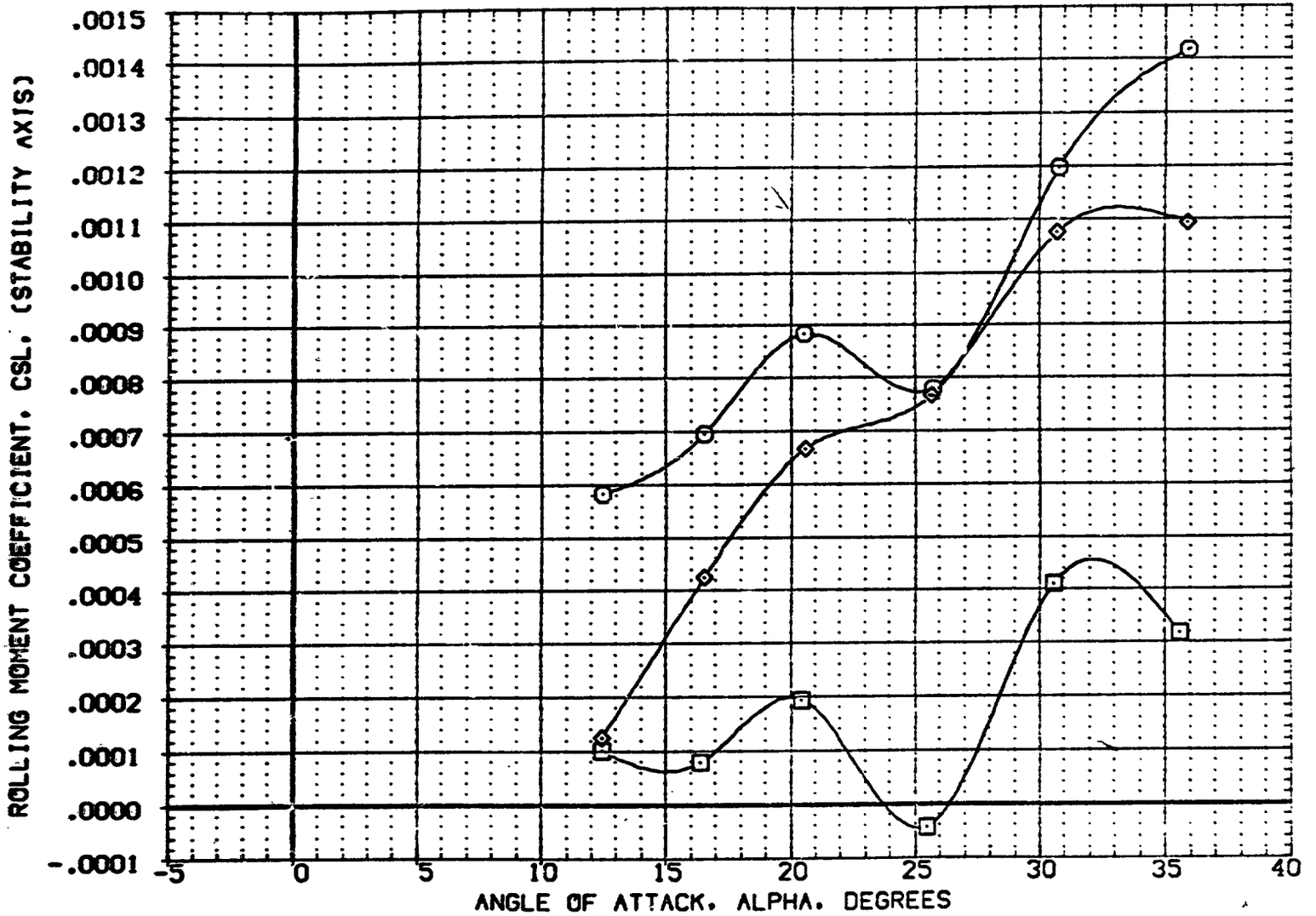
EFFECT OF WING

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM058)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	1.000
(CPM004)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	.000	1.000
(CPM070)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



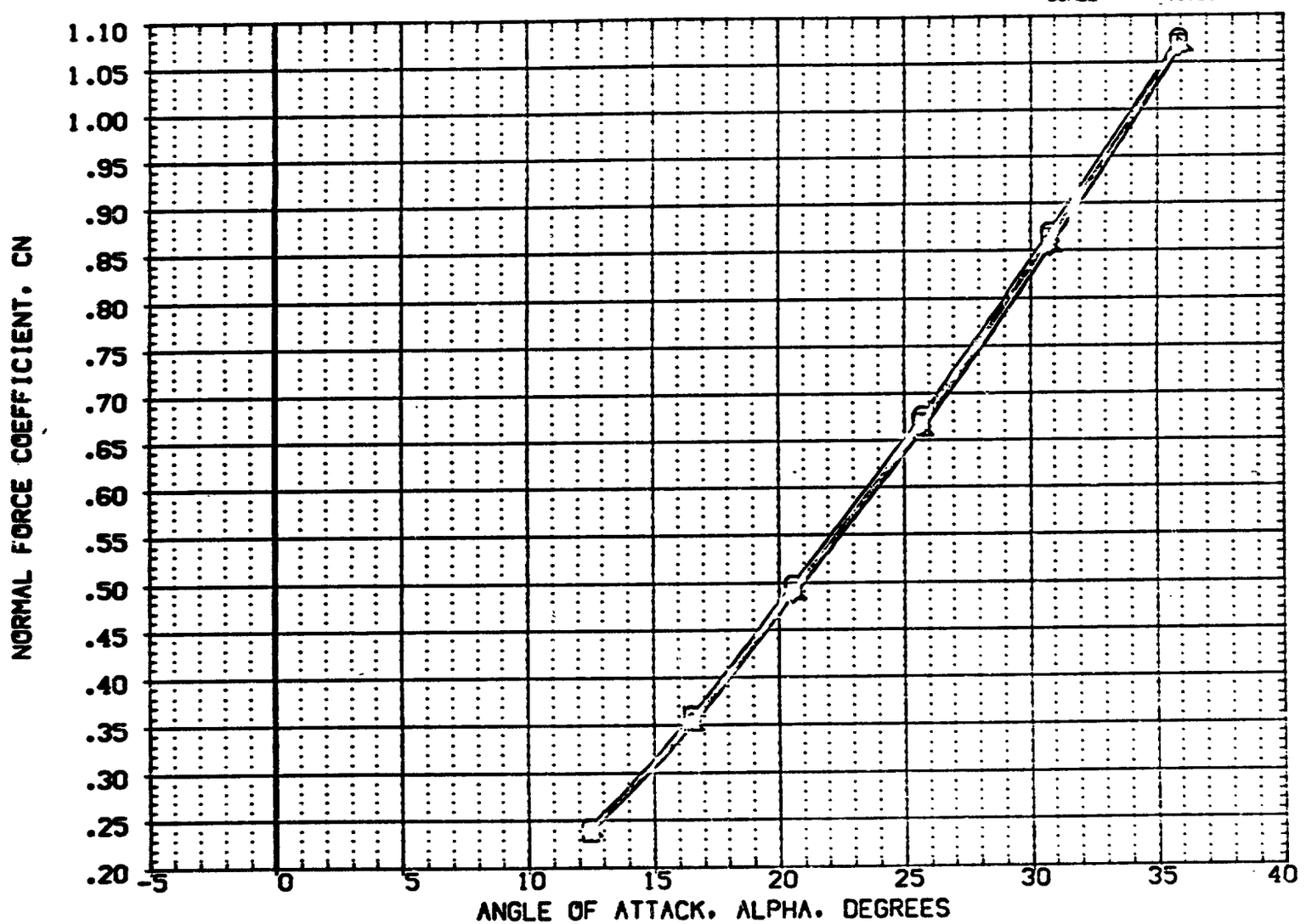
EFFECT OF WING

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	.000	1.000
(CPM026)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	35.000	1.000
(CPM029)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	168.000	1.000
(CPM030)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(CPM035)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.9828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



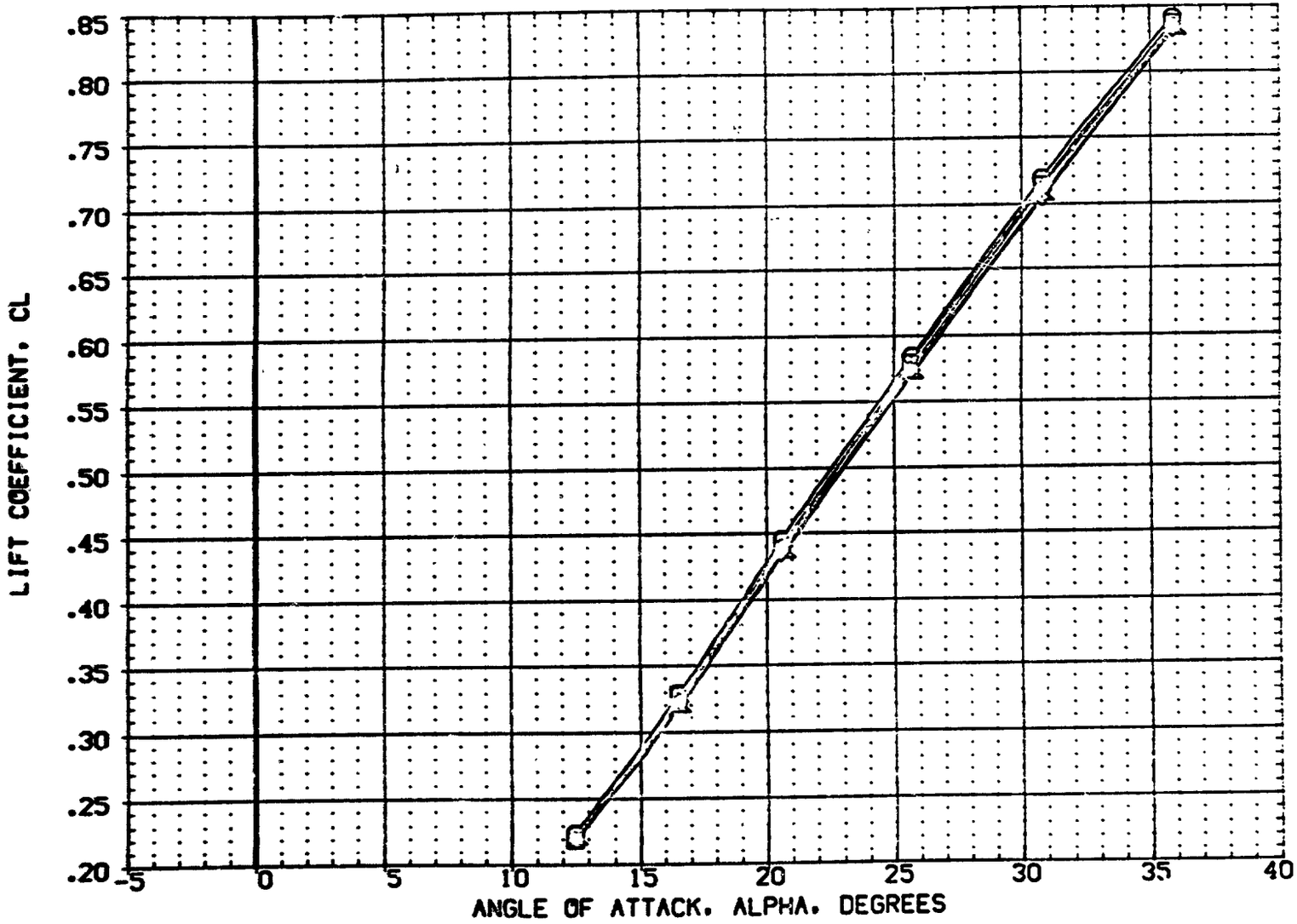
EFFECT OF YAW NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	.000	1.000
(CPM026)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	35.000	1.000
(CPM029)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	188.000	1.000
(CPM030)	⋈	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(CPM035)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

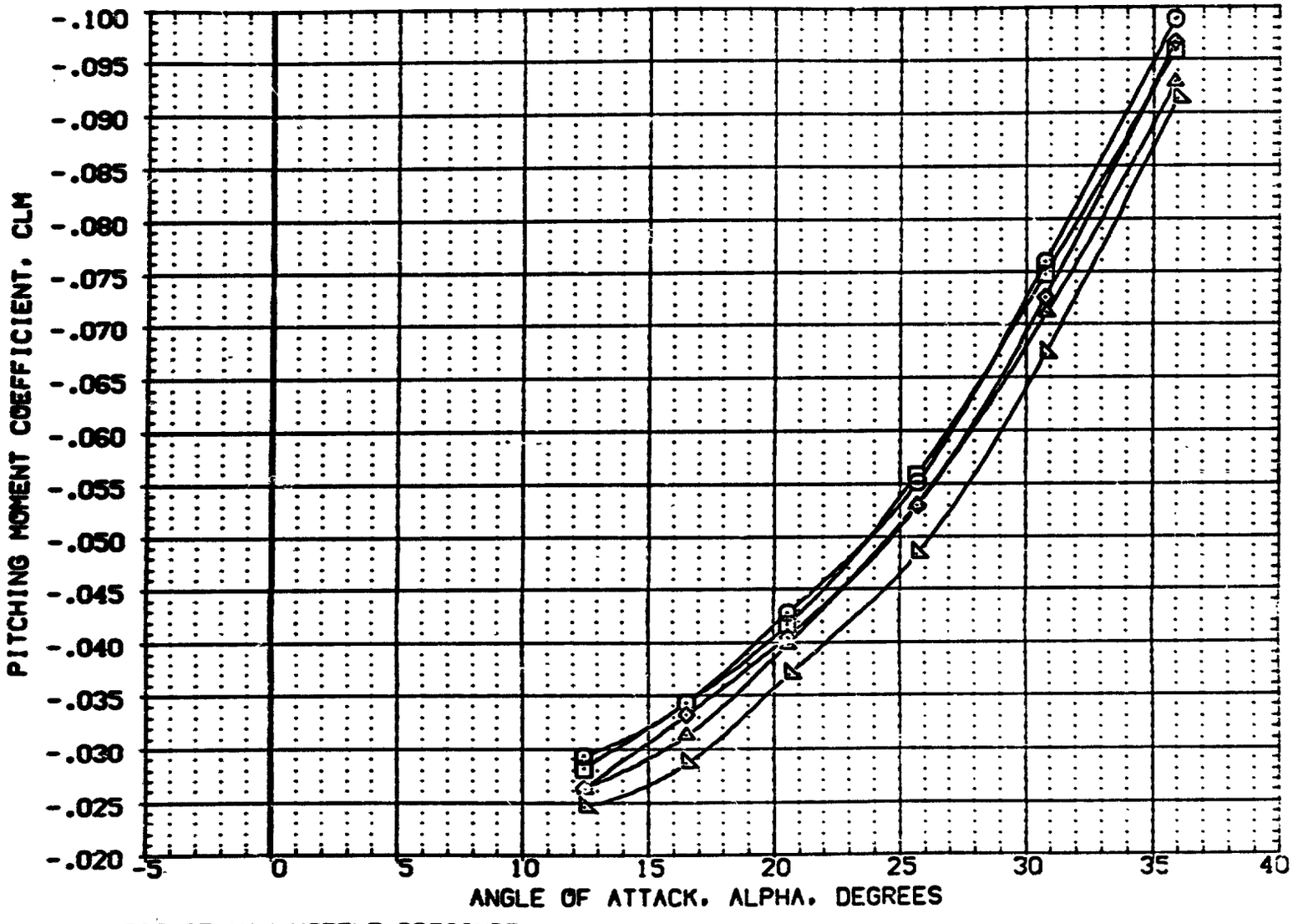


EFFECT OF YAW NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	.000	1.000
(CPM026)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	35.000	1.000
(CPM029)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	188.000	1.000
(CPM030)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(CPM035)	◺	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



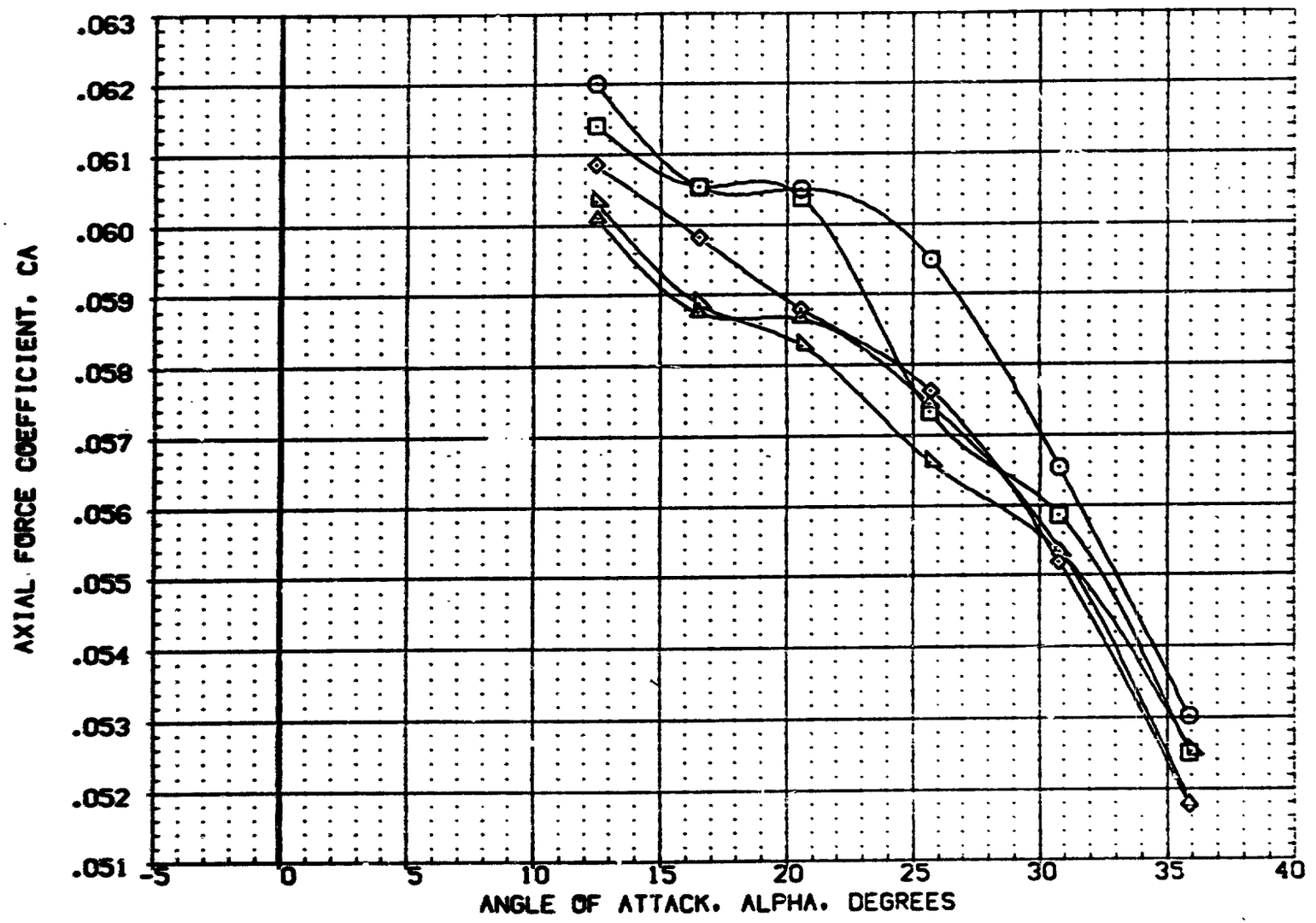
EFFECT OF YAW NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(OPH021)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	.000	1.000
(OPH026)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	35.000	1.000
(OPH029)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	-188.000	1.000
(OPH030)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(OPH035)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



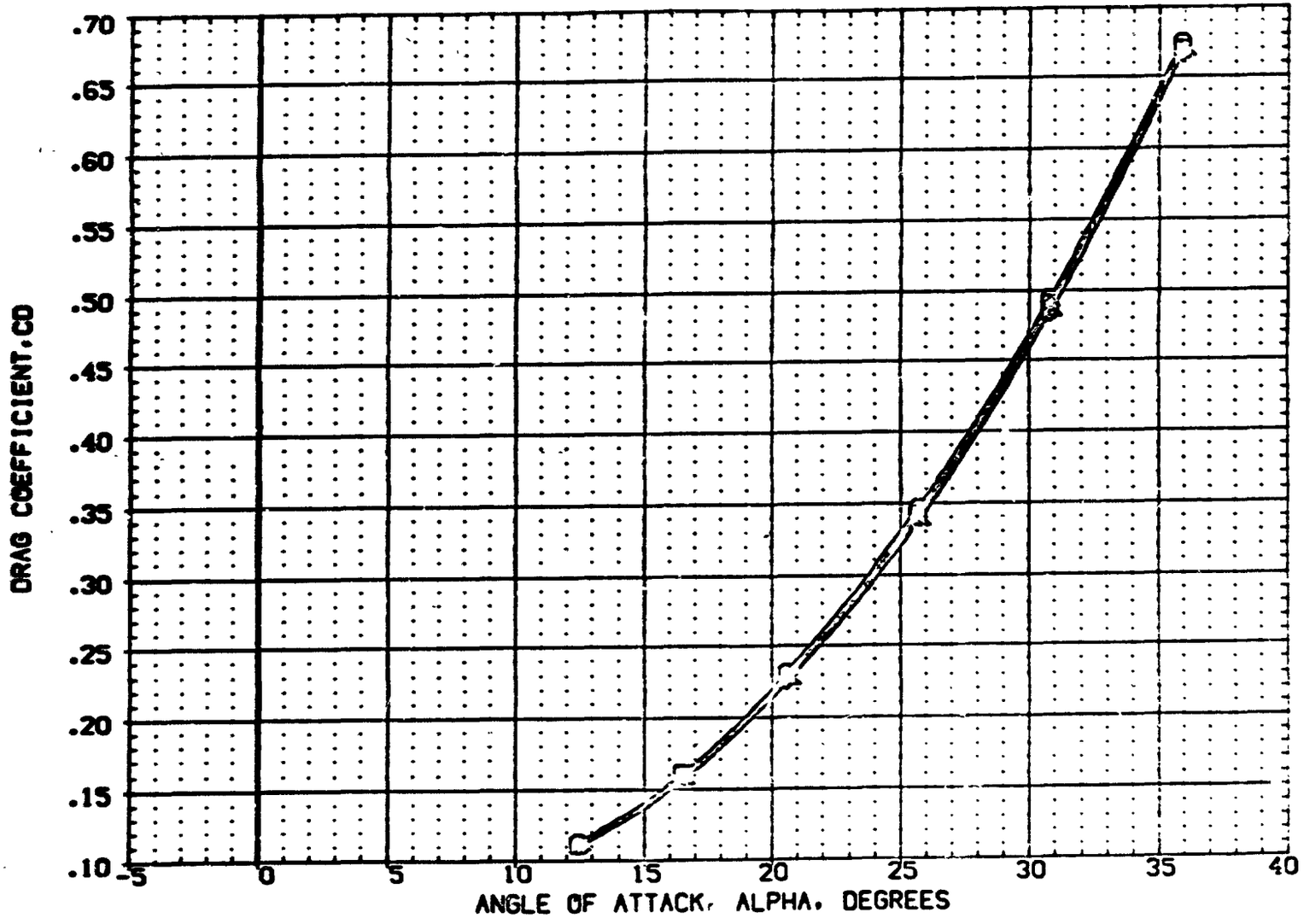
EFFECT OF YAW NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(OPH021)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	.000	.000	1.000
(OPH026)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	.030	35.000	1.000
(OPH029)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	.030	188.000	1.000
(OPH030)	▽	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	.030	310.000	1.000
(OPH035)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.0928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

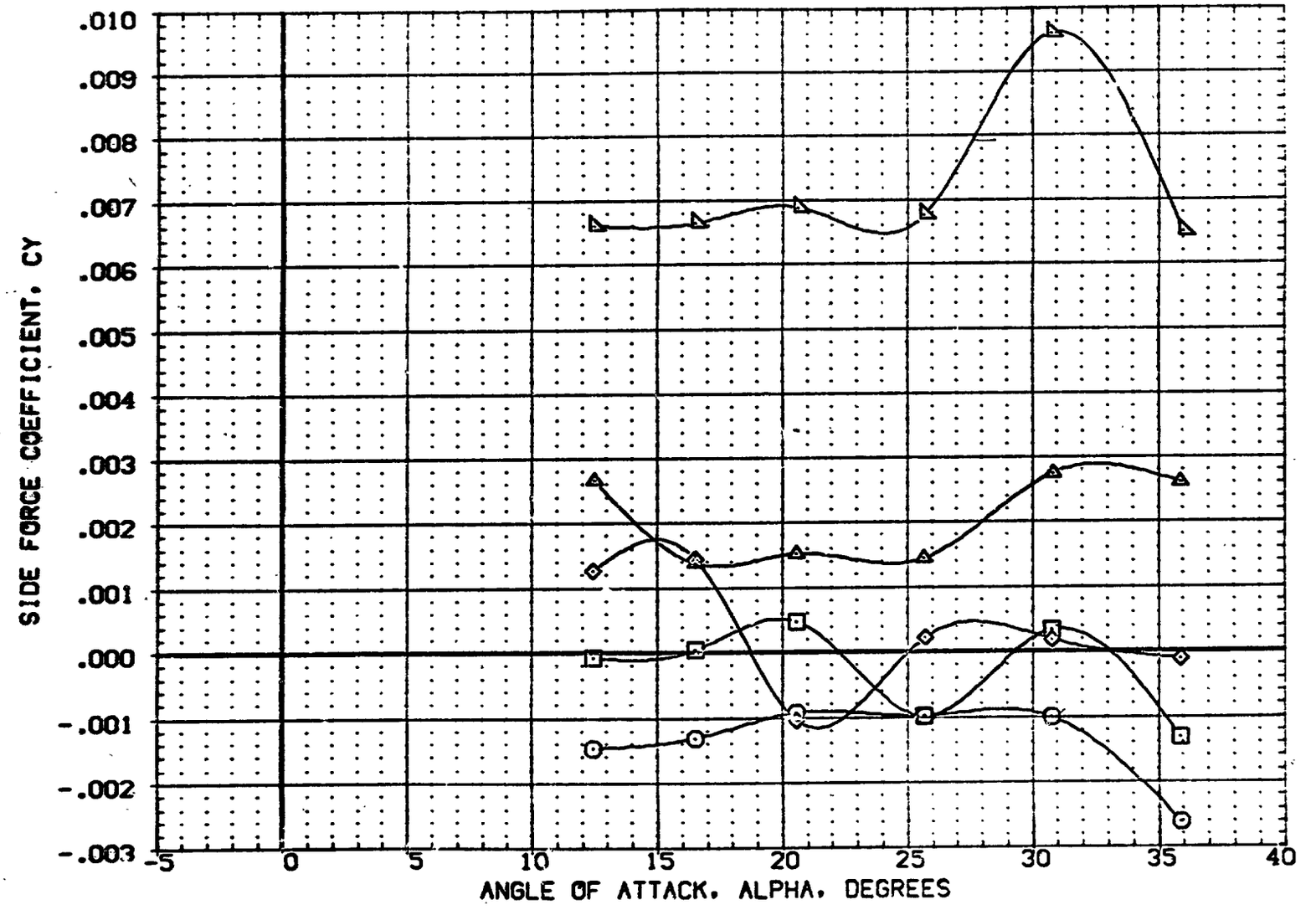


EFFECT OF YAW NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	.000	1.000
(CPM026)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	35.000	1.000
(CPM029)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	189.000	1.000
(CPM030)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(CPM035)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



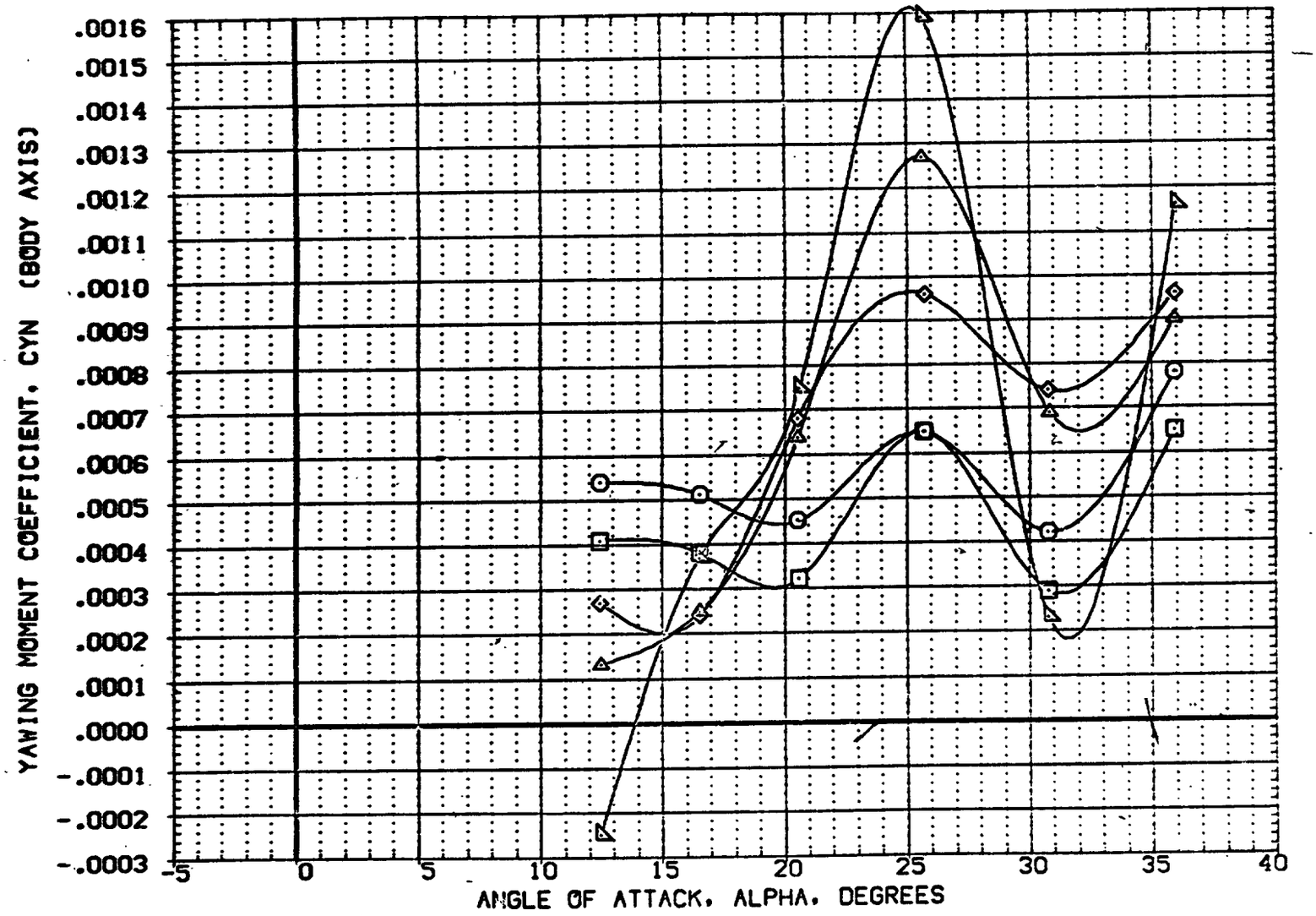
EFFECT OF YAW NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	1.000
(CPM026)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	35.000	1.000
(CPM029)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	188.000	1.000
(CPM030)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	310.000	1.000
(CPM035)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

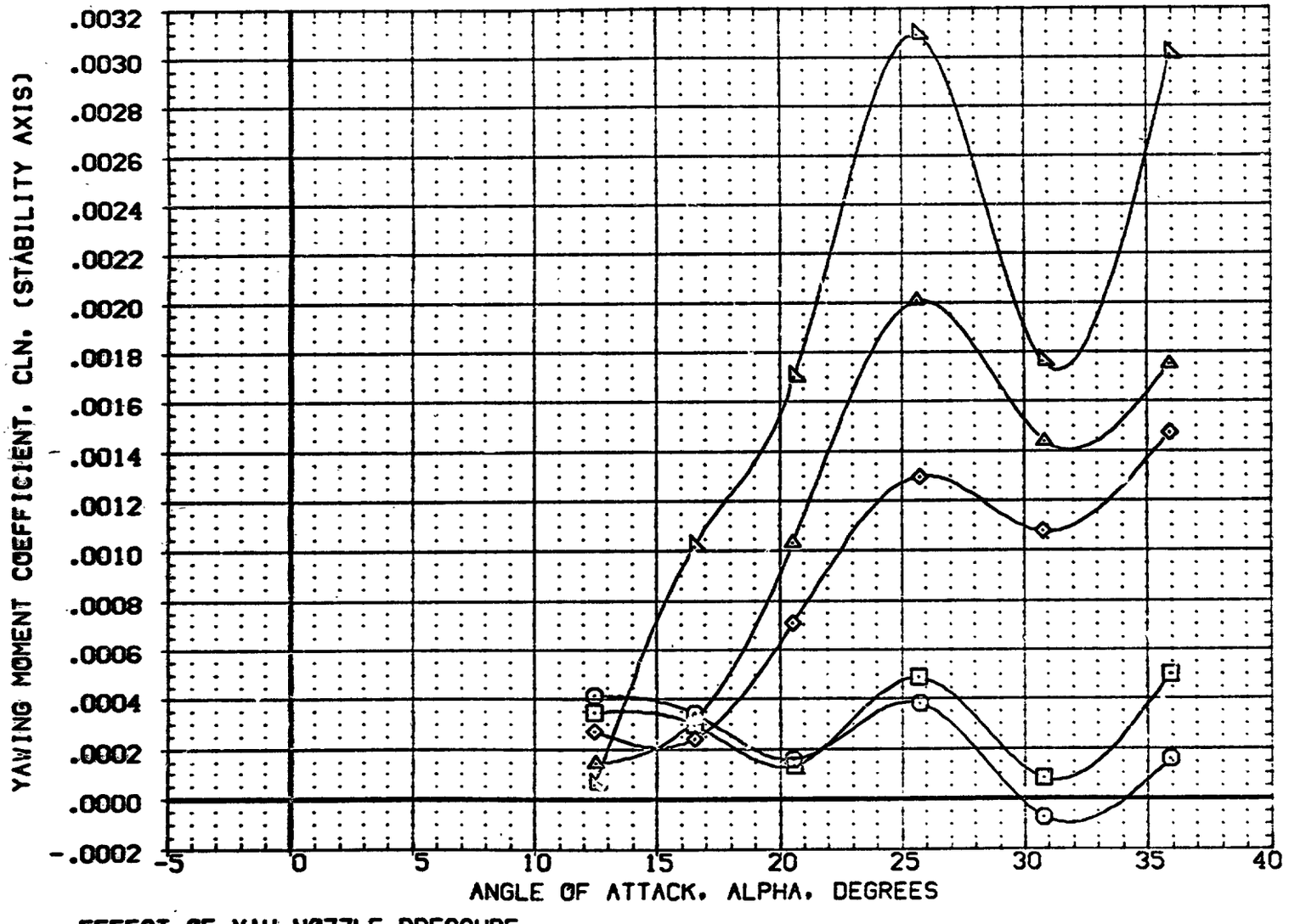


EFFECT OF YAW NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021) ○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	.000	1.000
(CPM026) □	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	35.000	1.000
(CPM029) ◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	188.000	1.000
(CPM030) △	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(CPM035) ▷	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



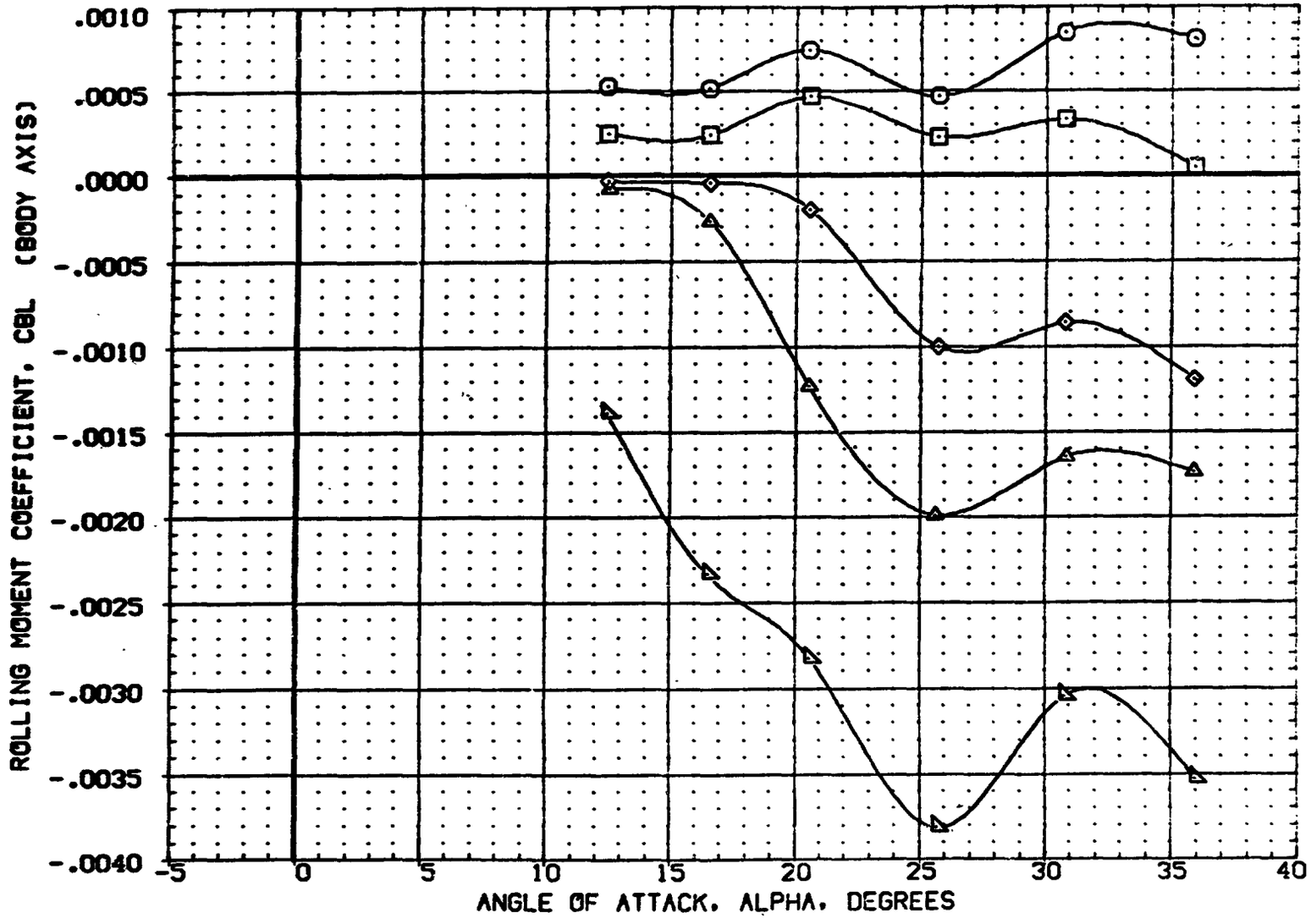
EFFECT OF YAW NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	.000	1.000
(CPM026)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	35.000	1.000
(CPM029)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	188.000	1.000
(CPM030)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(CPM035)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ. FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

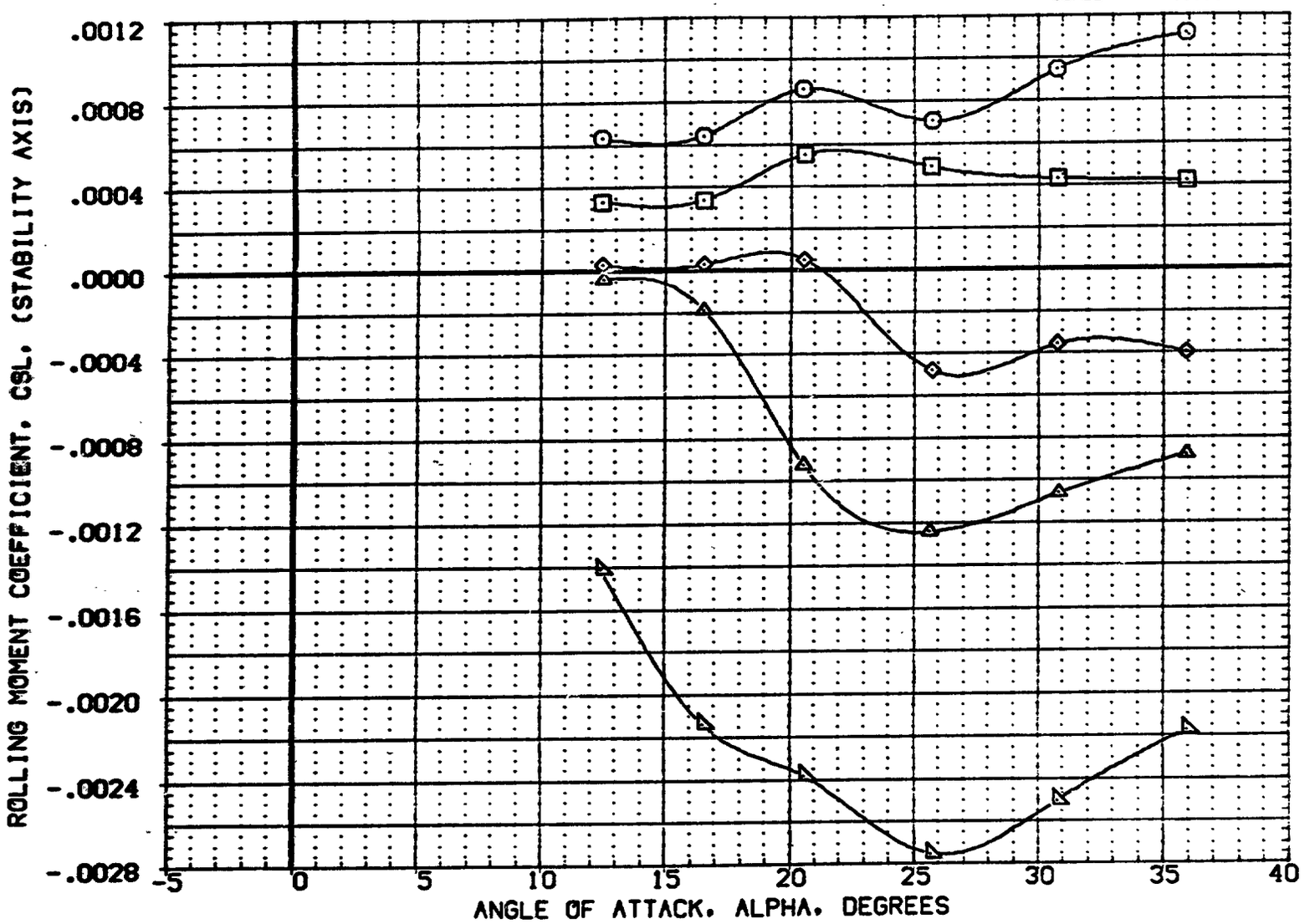


EFFECT OF YAW NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	.000	.000	1.000
(CPM026)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	.000	35.000	1.000
(CPM029)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	.000	188.000	1.000
(CPM030)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	.000	310.000	1.000
(CPM035)	◺	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



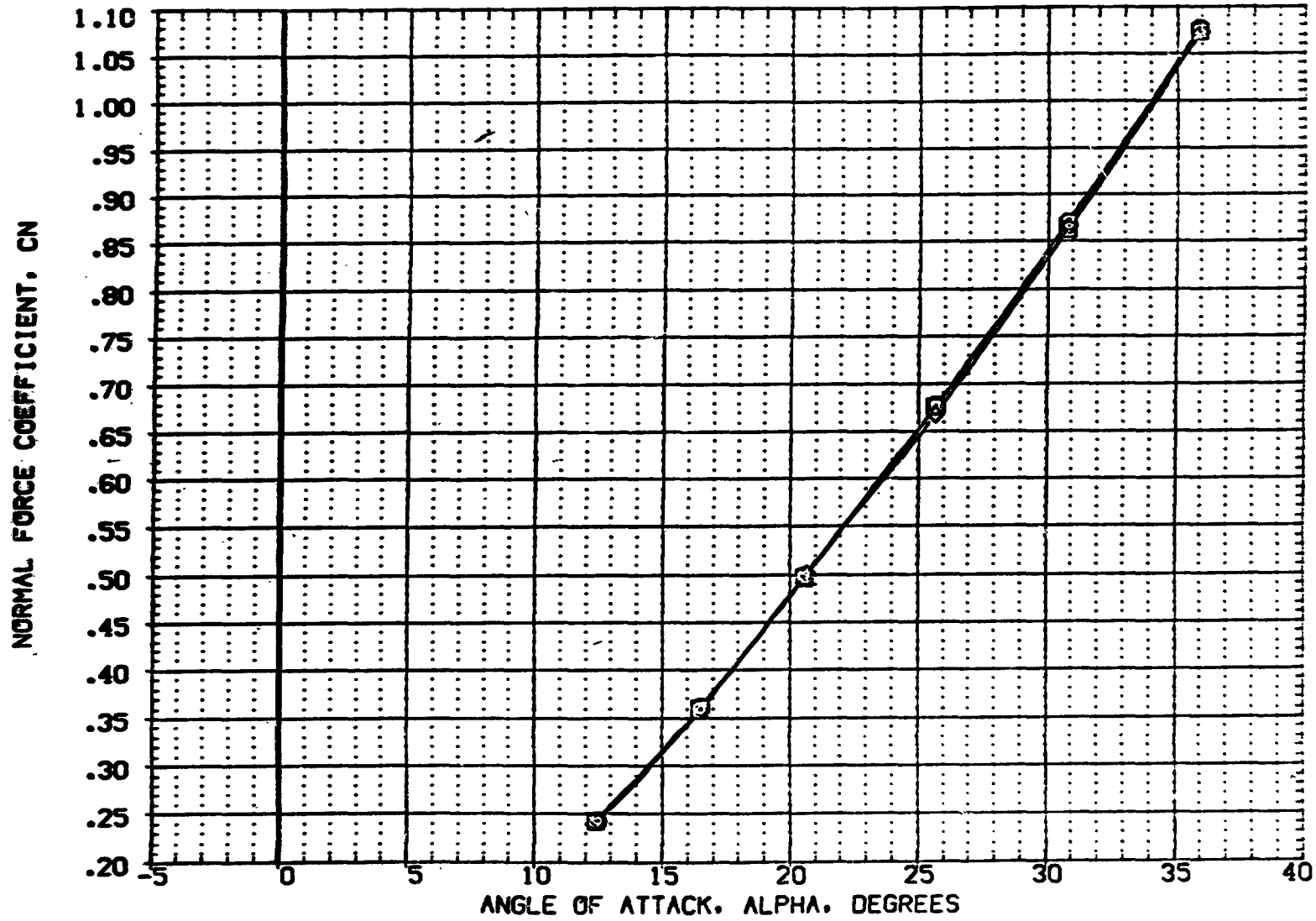
EFFECT OF YAW NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	1.000
(CPM022)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-2.500	.000	1.000
(CPM023)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



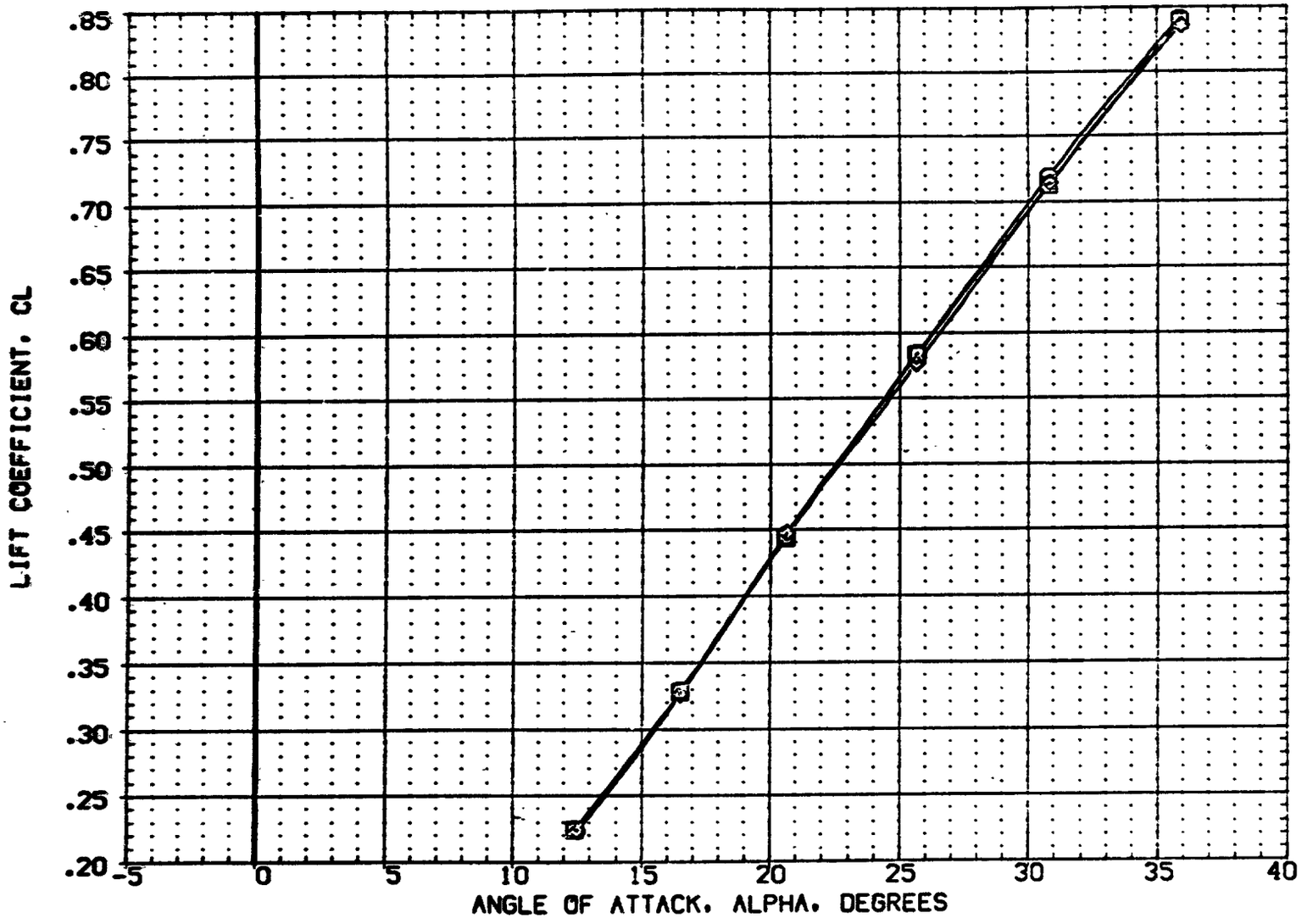
EFFECT OF YAW ANGLE (JET OFF)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	.000	1.000
(CPM022)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-2.500	.000	1.000
(CPM023)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

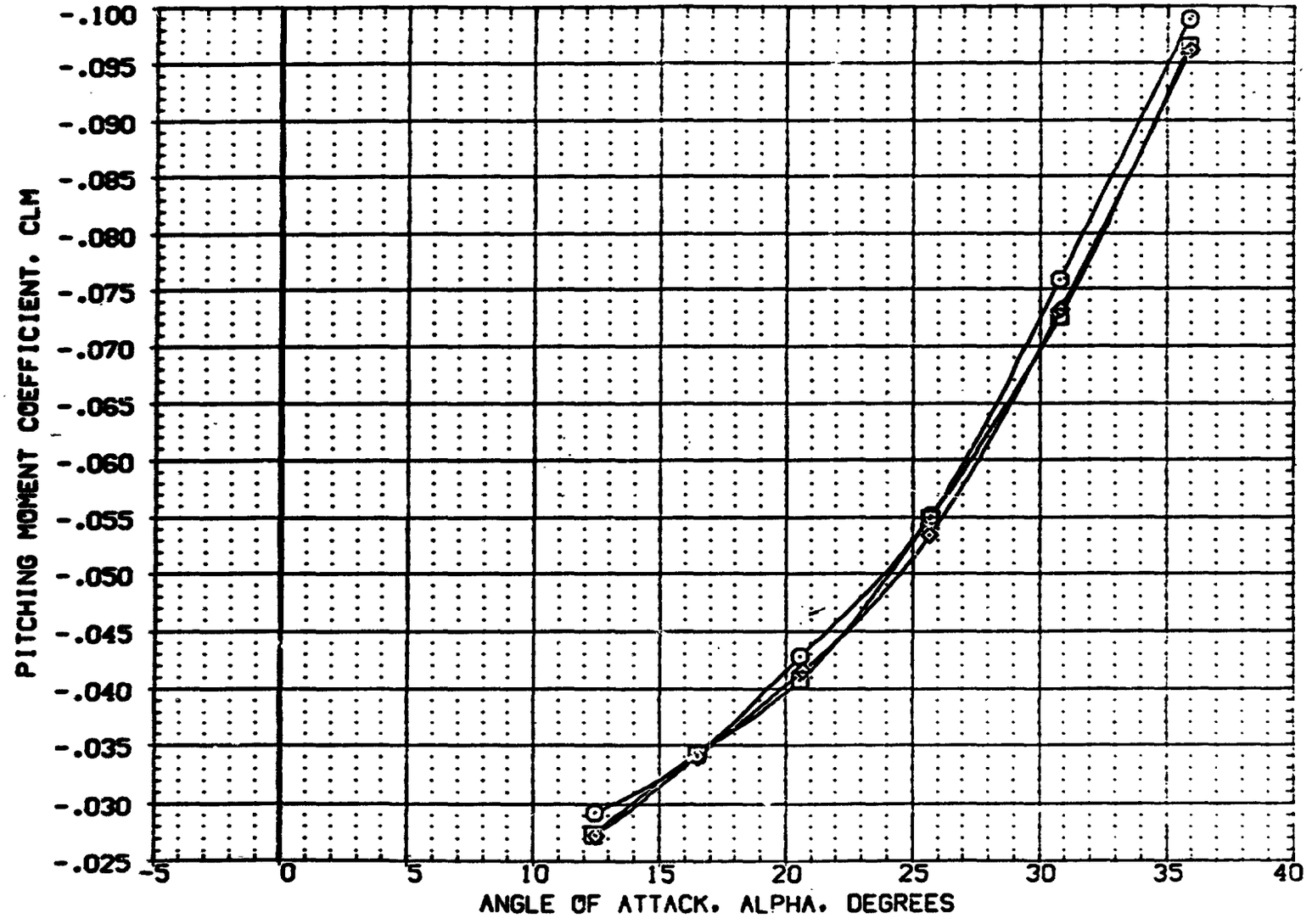


EFFECT OF YAW ANGLE (JET OFF)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	1.000
(CPM022)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-2.500	.000	1.000
(CPM023)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-5.000	.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8829	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

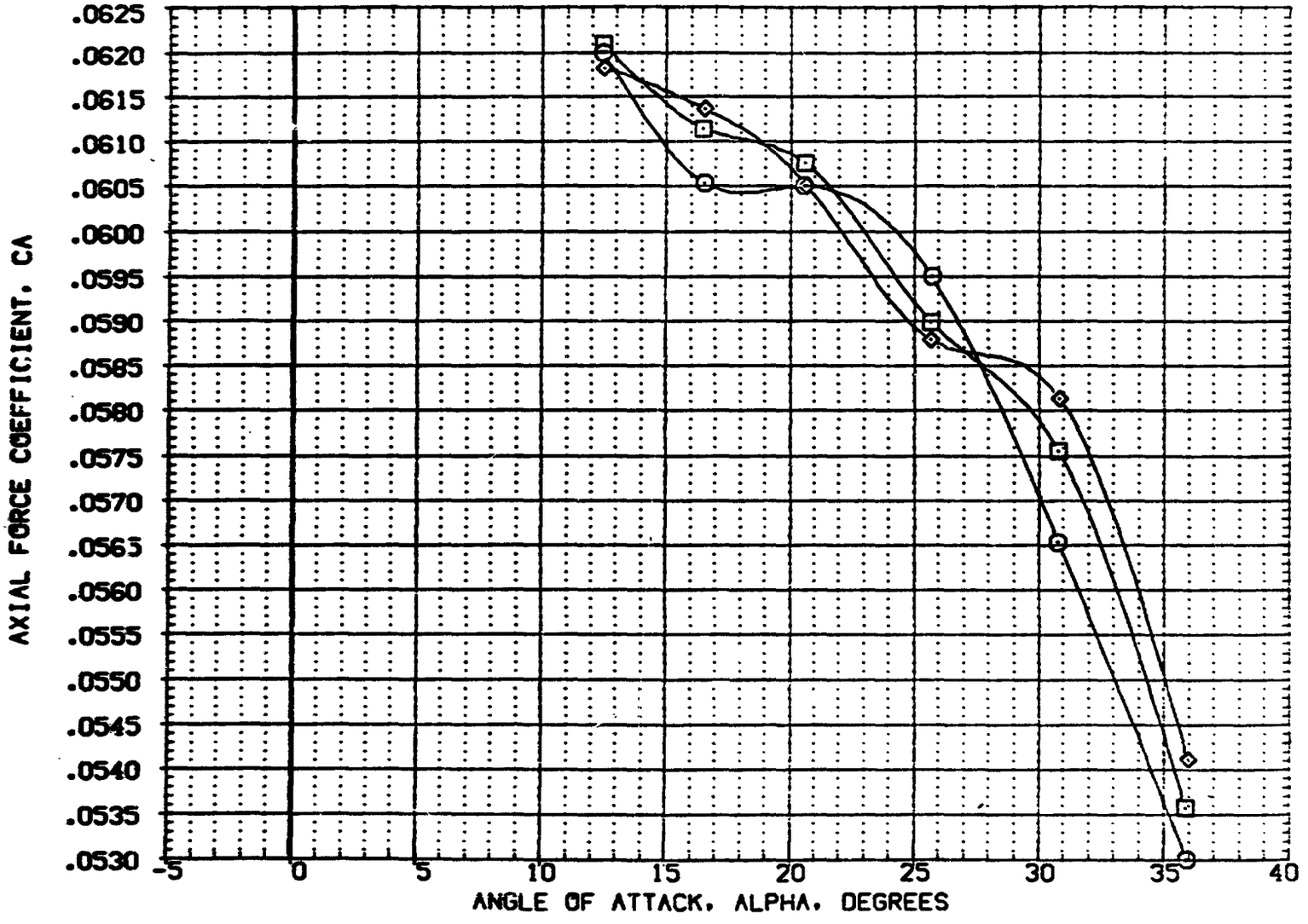


EFFECT OF YAW ANGLE (JET OFF)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	.000	1.000
(CPM022) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-2.500	.000	1.000
(CPM023) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



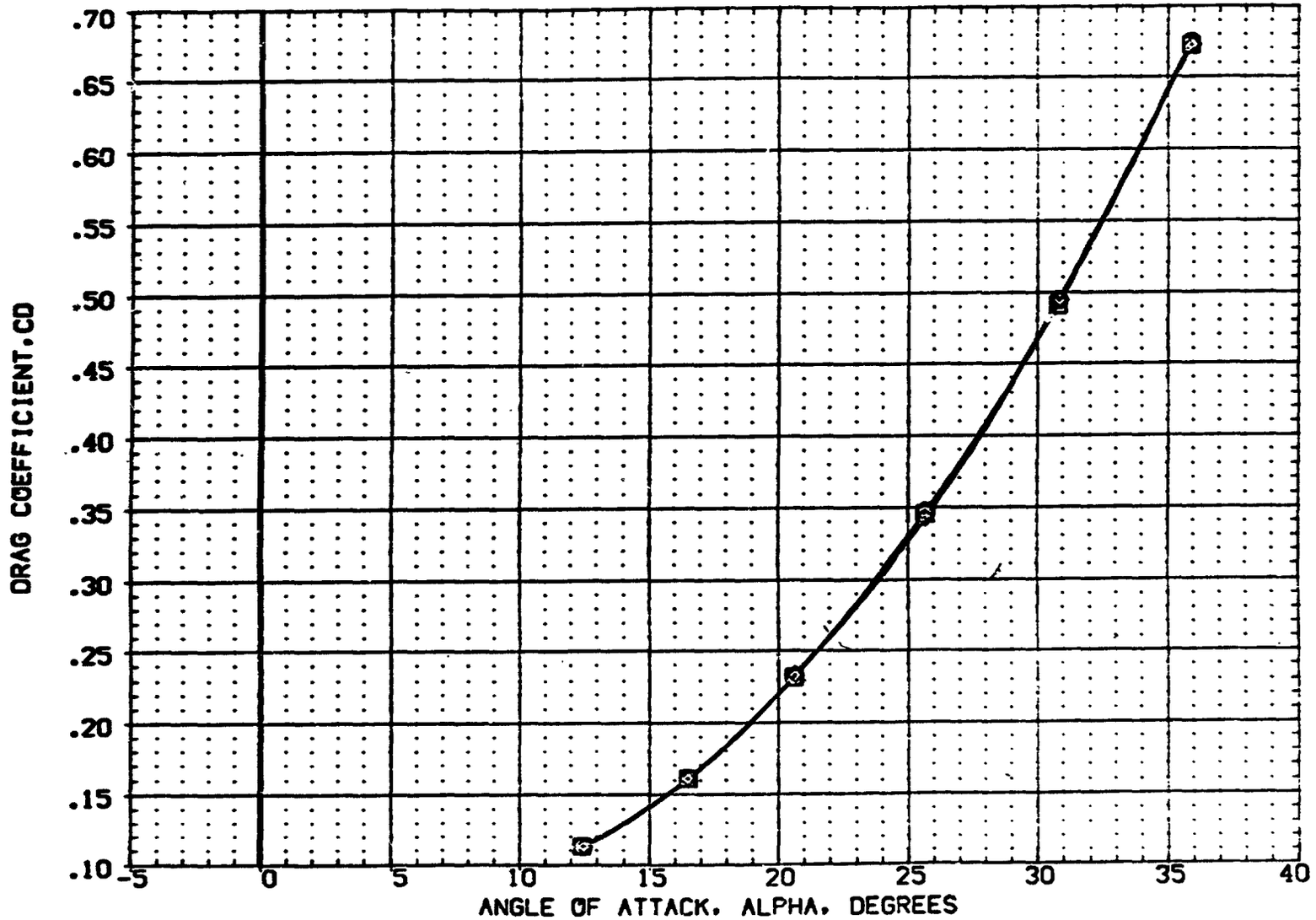
EFFECT OF YAW ANGLE (JET OFF)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	.000	1.000
(CPM022)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-2.500	.000	1.000
(CPM023)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



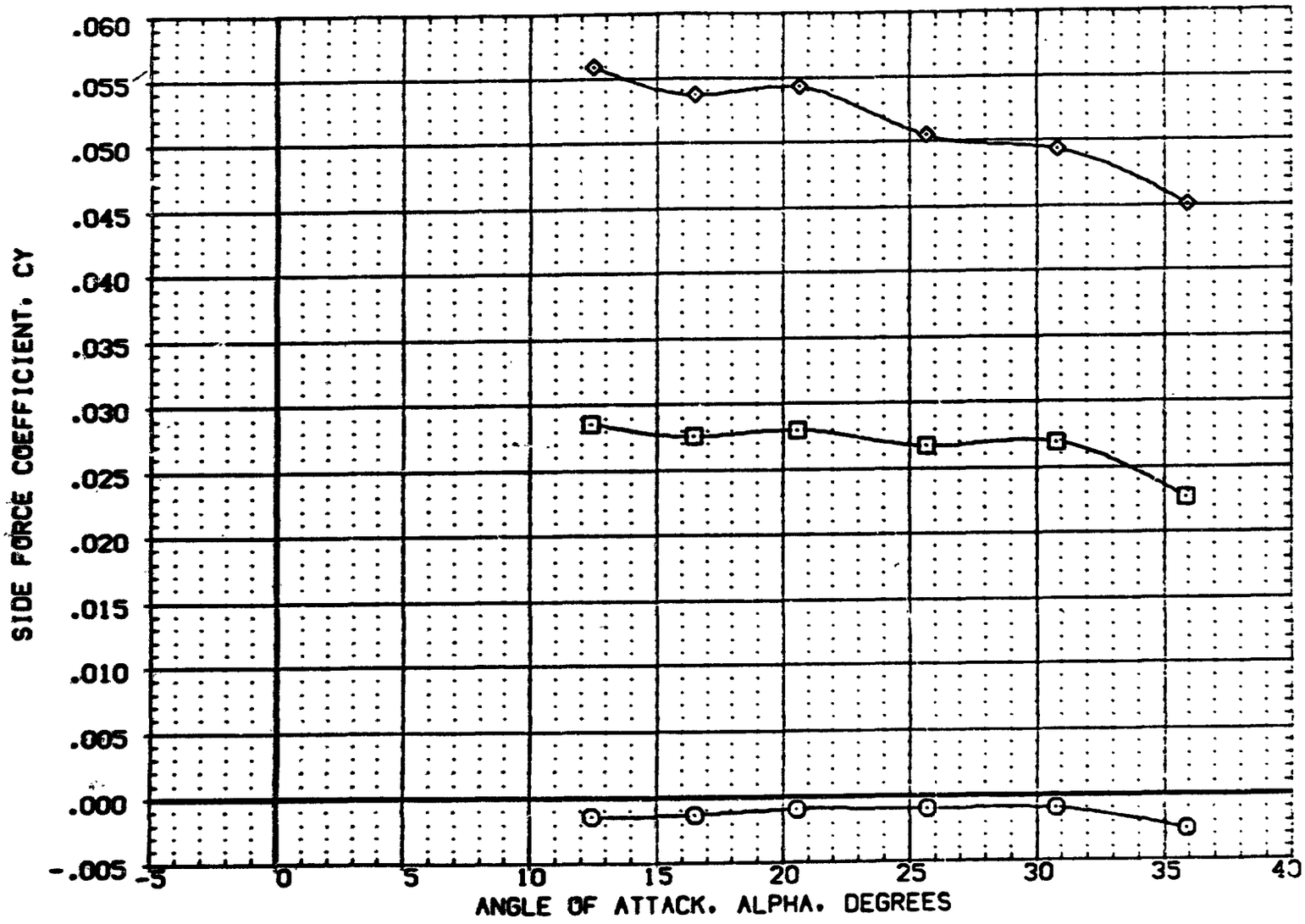
EFFECT OF YAW ANGLE (JET OFF)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	.000	1.000
(CPM022) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-2.500	.000	1.000
(CPM023) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



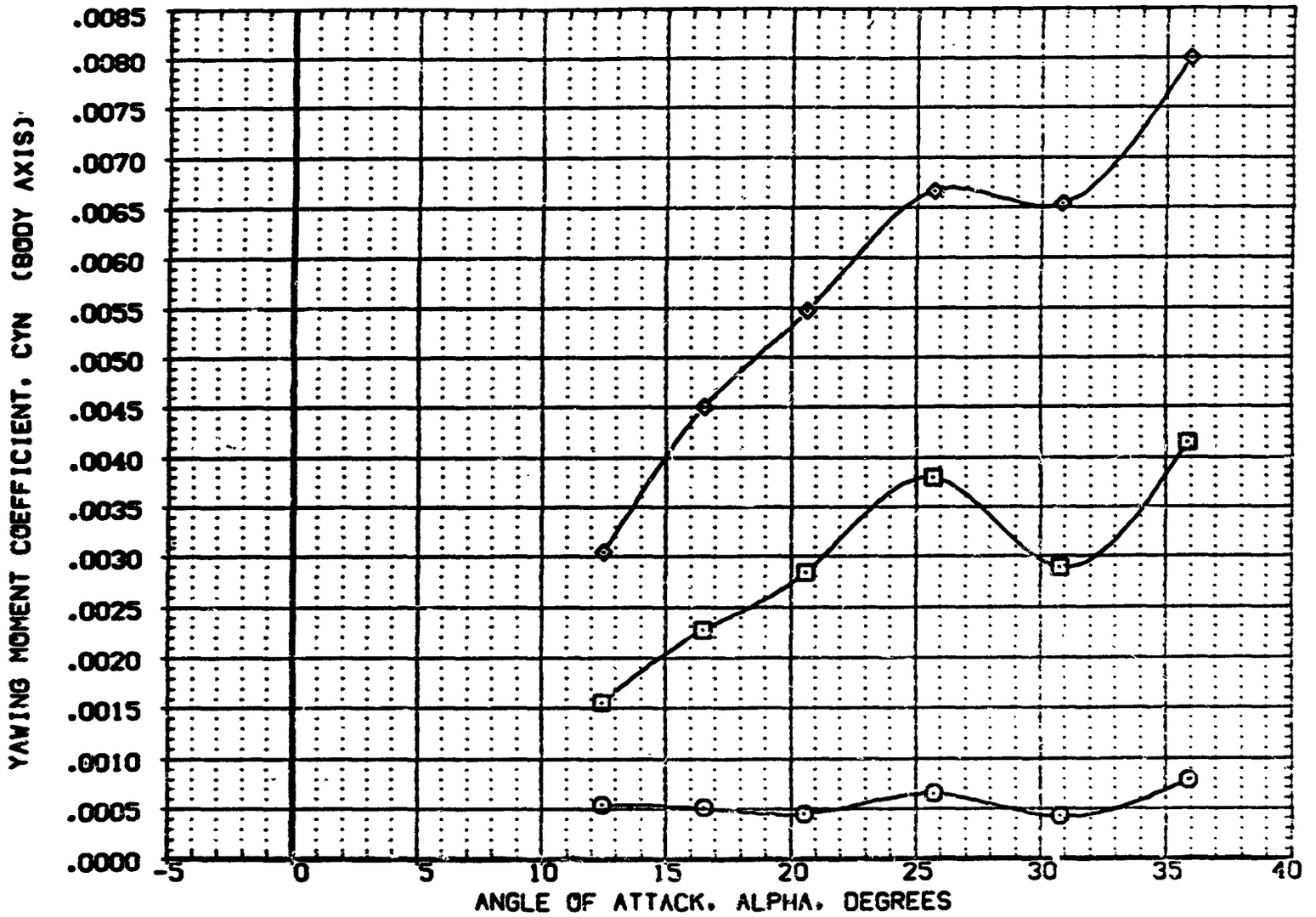
EFFECT OF YAW ANGLE (JET OFF)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	.000	1.000
(CPM022)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-2.500	.000	1.000
(CPM023)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

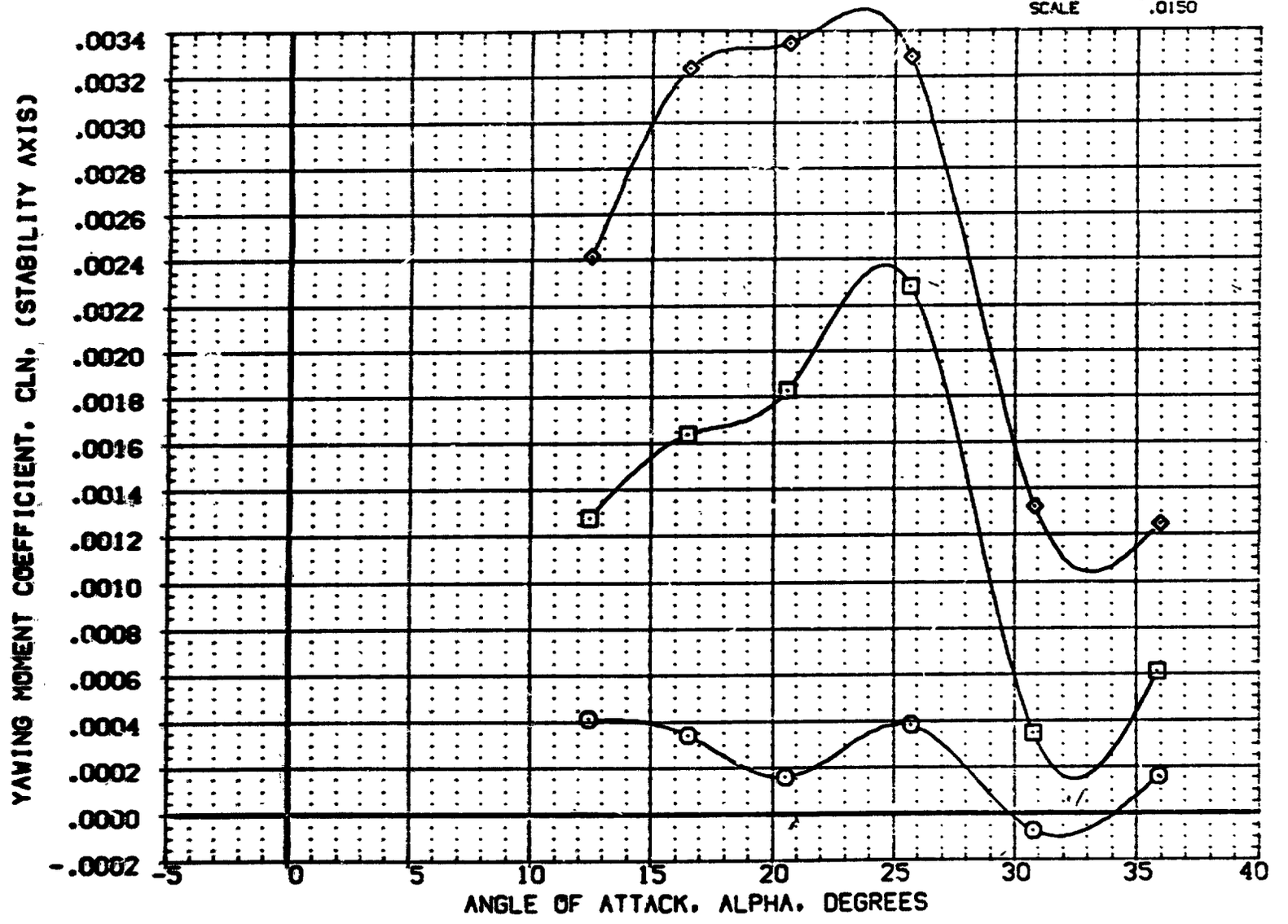


EFFECT OF YAW ANGLE (JET OFF)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPH021) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	.000	1.000
(CPH022) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-2.500	.000	1.000
(CPH023) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



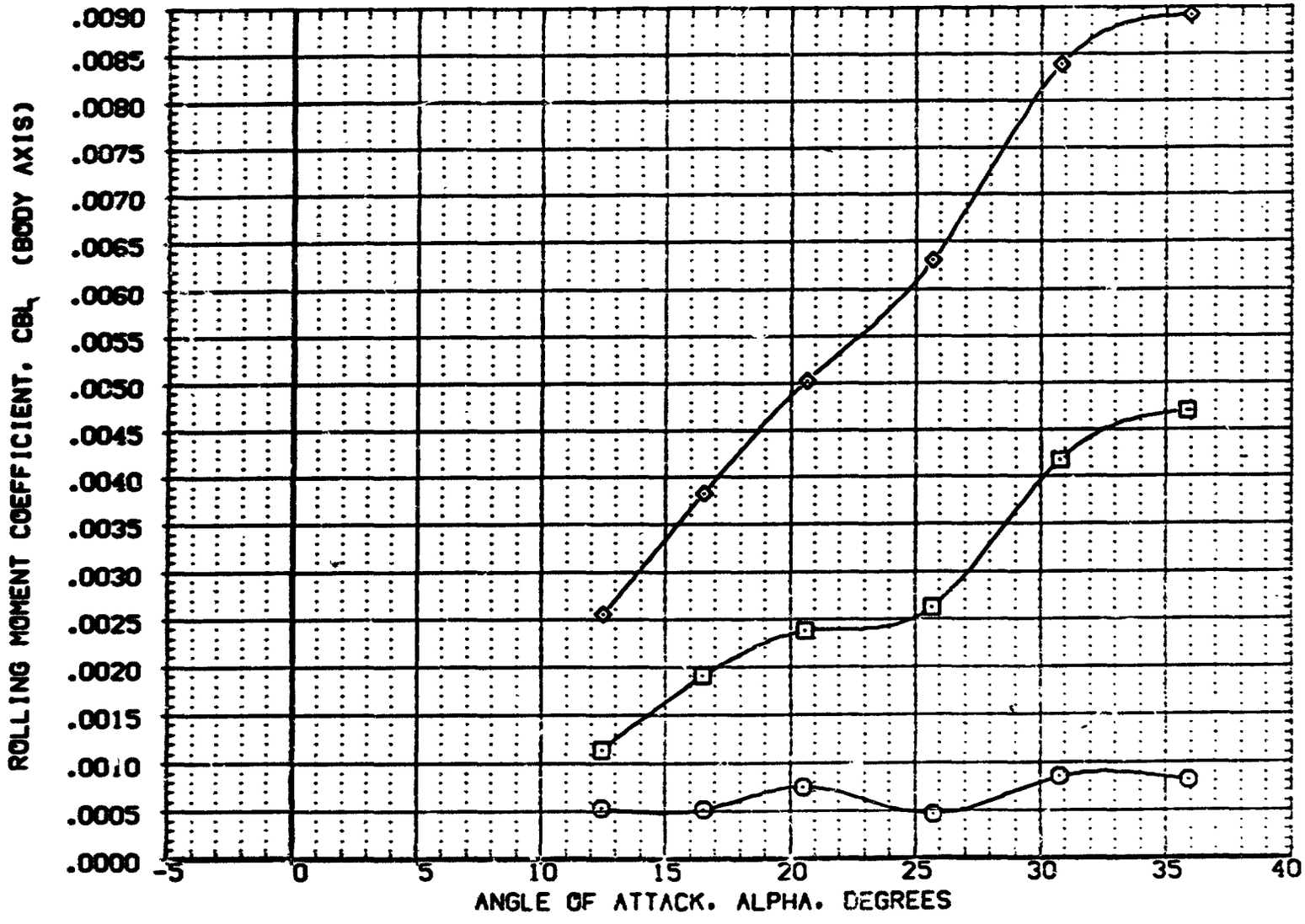
EFFECT OF YAW ANGLE (JET OFF)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PC-JET	RN/L
(CPM021)	○	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	.000	1.000
(CPM022)	□	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-2.500	.000	1.000
(CPM023)	◇	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.6528	INCHES
BREF	15.1152	INCHES
XMRP	12.9800	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



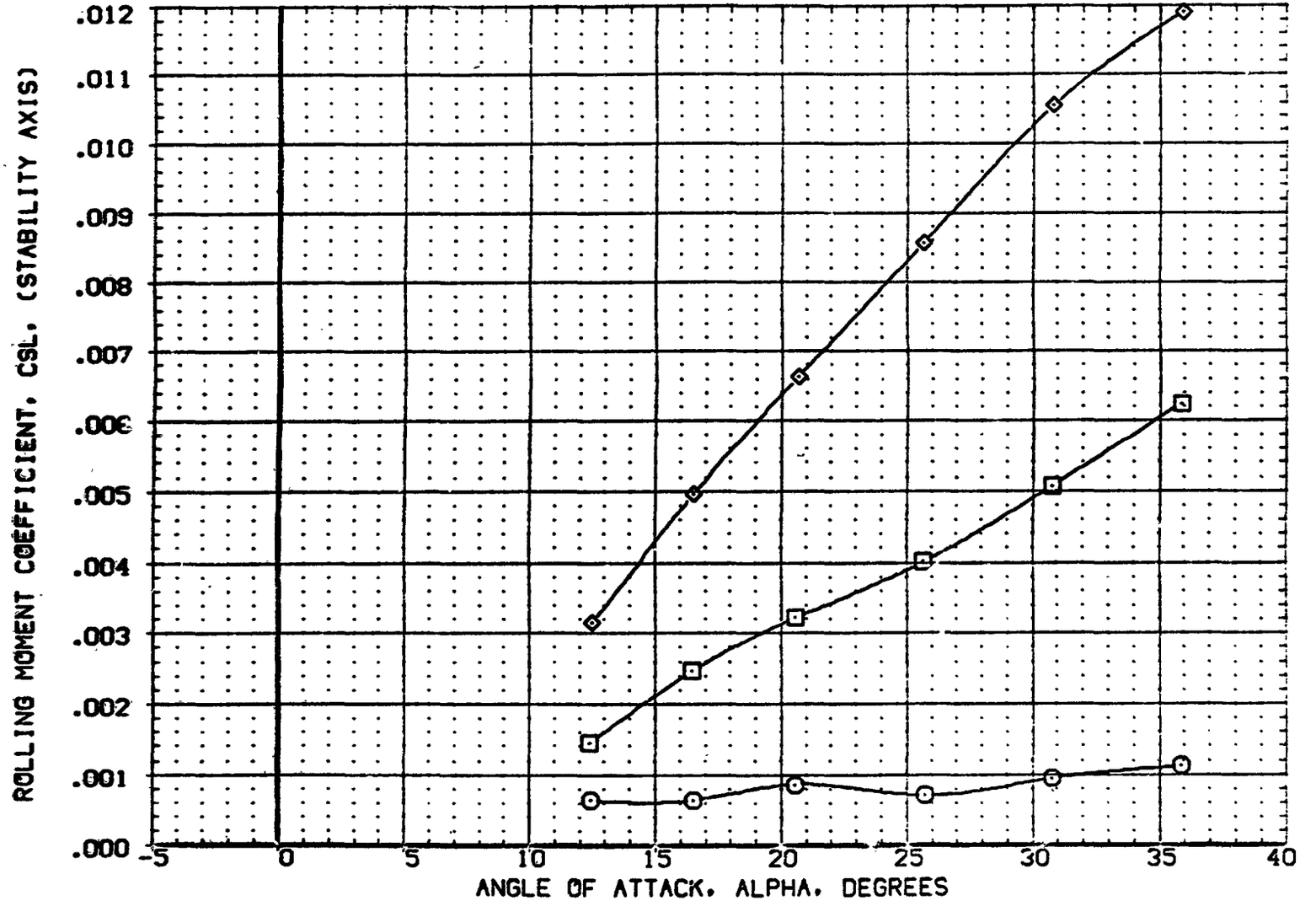
EFFECT OF YAW ANGLE (JET OFF)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM021)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	.000	1.000
(CPM022)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-2.500	.000	1.000
(CPM023)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



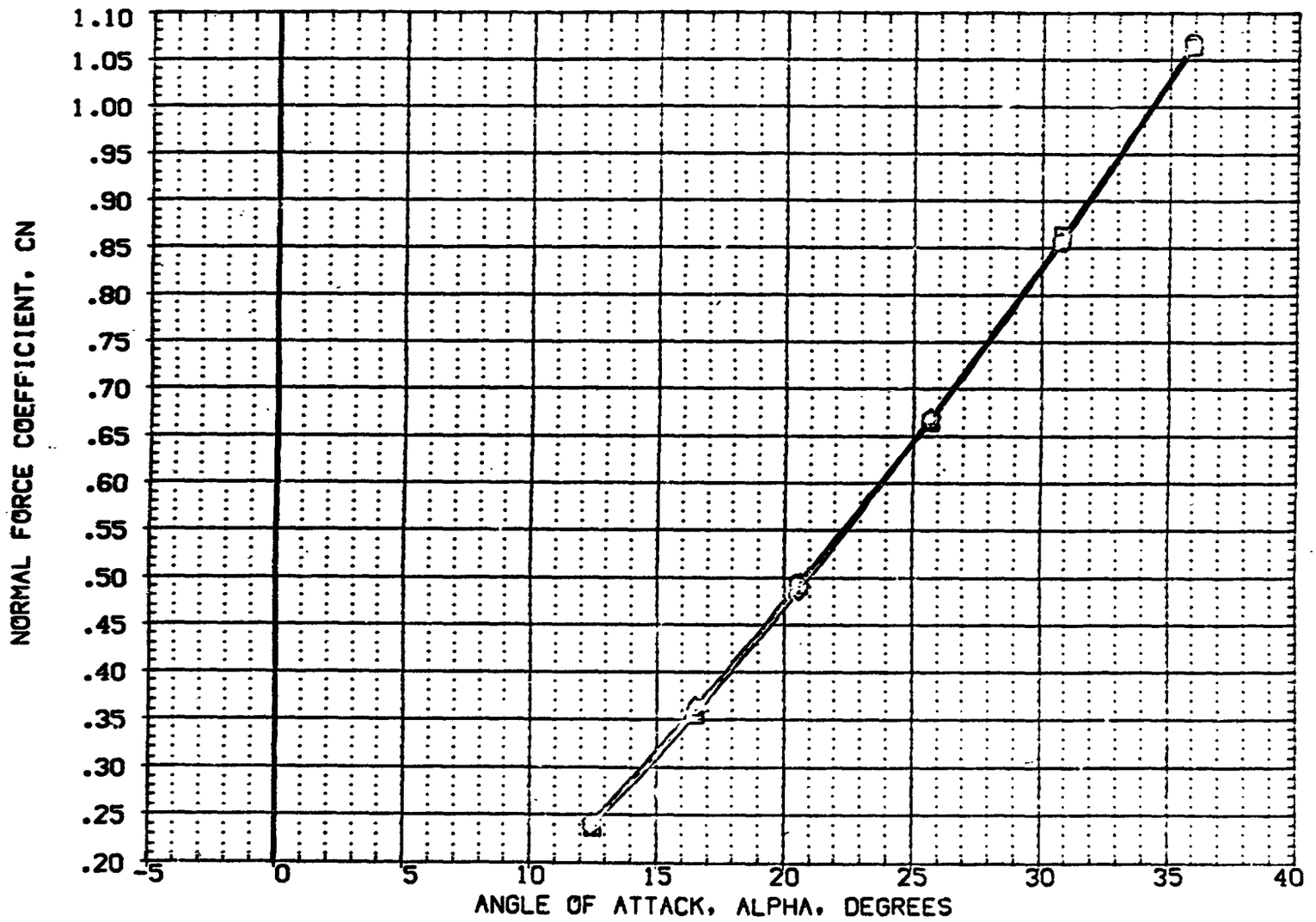
EFFECT OF YAW ANGLE (JET OFF)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM031)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	5.000	310.000	1.000
(CPM030)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(CPM032)	⊠	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-2.500	310.000	1.000
(CPM033)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	310.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



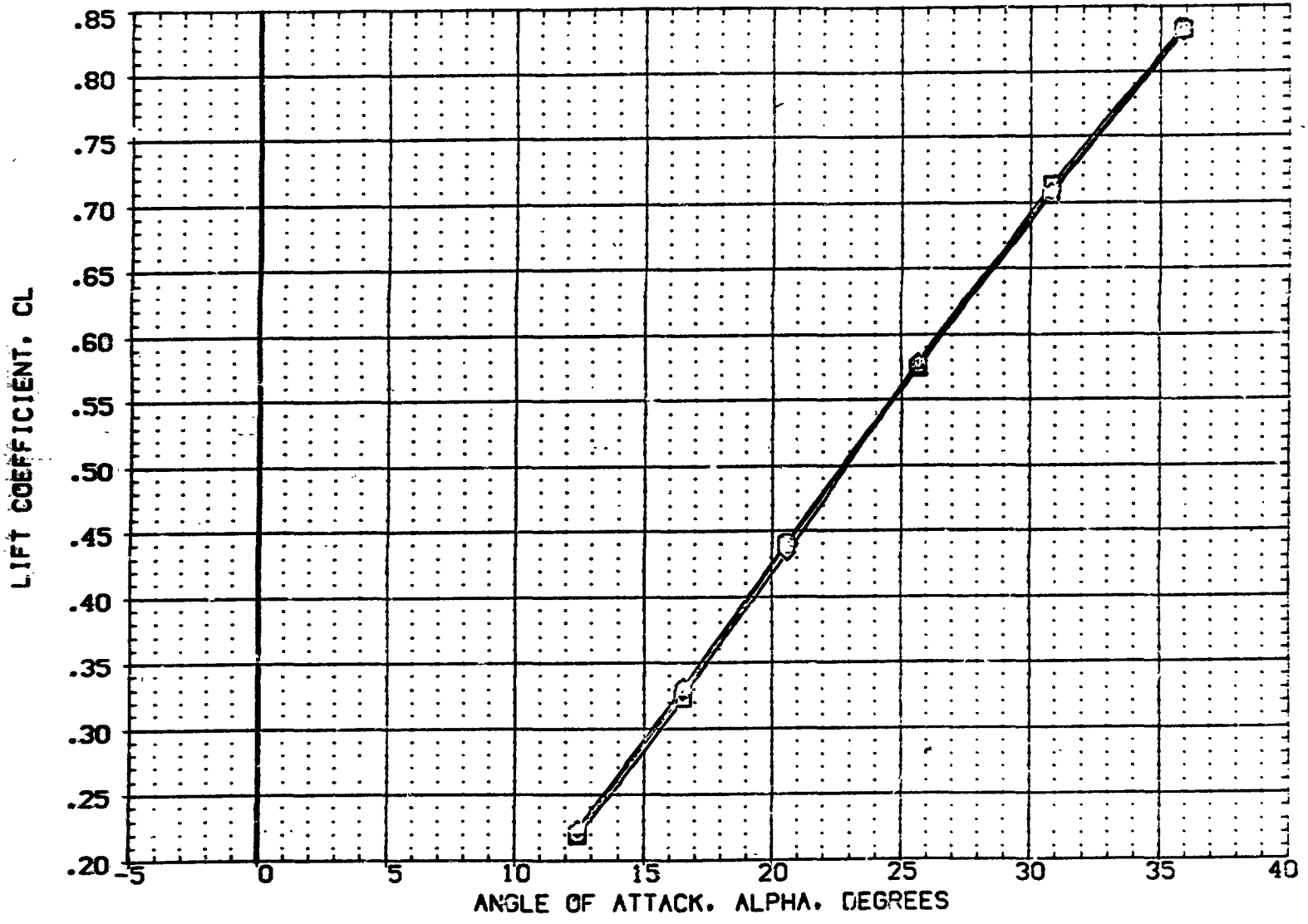
EFFECT OF YAW ANGLE (JET ON)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM031)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	5.000	310.000	1.000
(CPM030)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(CPM032)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-2.500	310.000	1.000
(CPM033)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	310.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.6828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



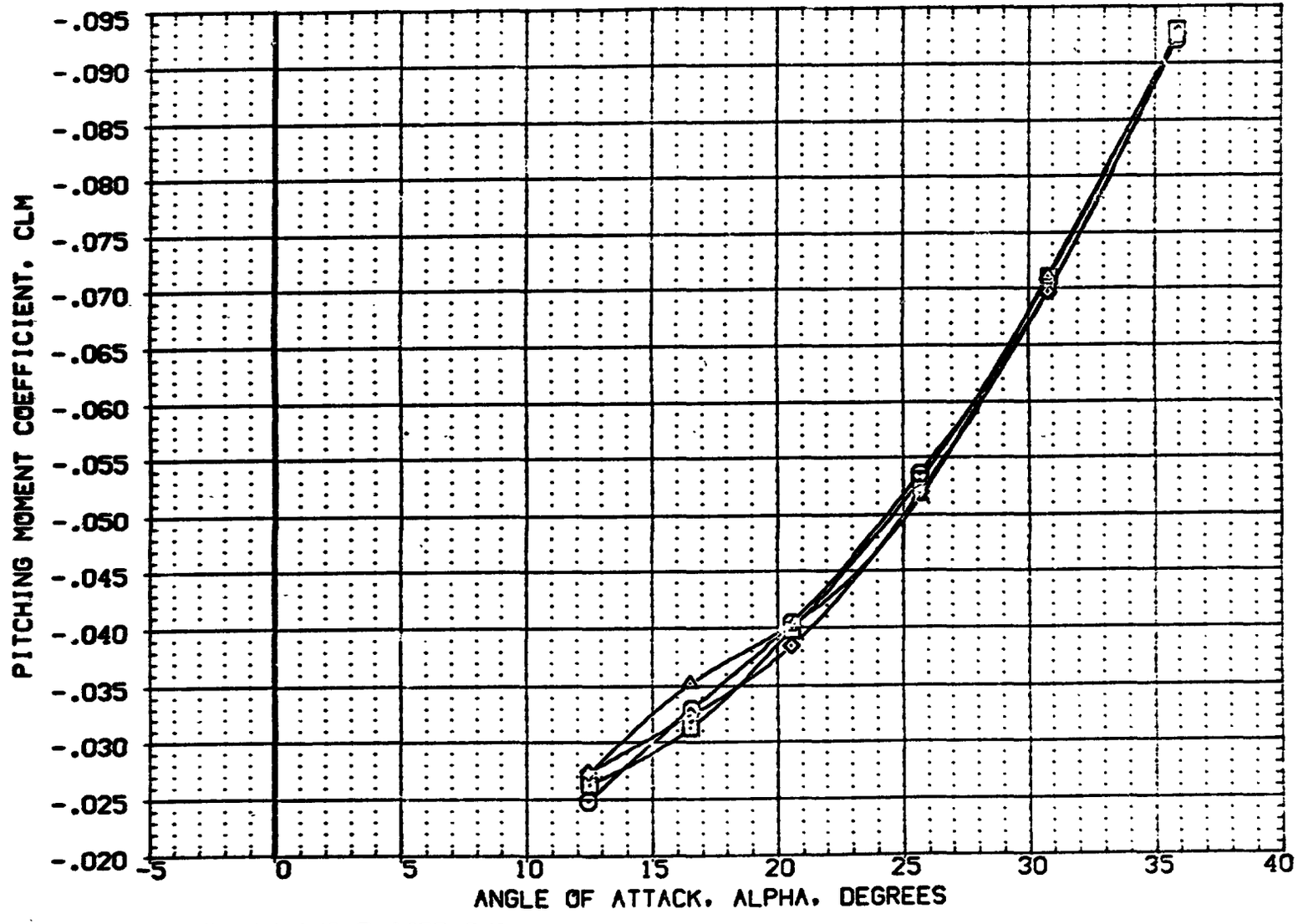
EFFECT OF YAW ANGLE (JET ON)

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM031)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTNI	5.000	310.000	1.000
(CPM030)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTNI	.000	310.000	1.000
(CPM032)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTNI	-2.500	310.000	1.000
(CPM033)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTNI	-5.000	310.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



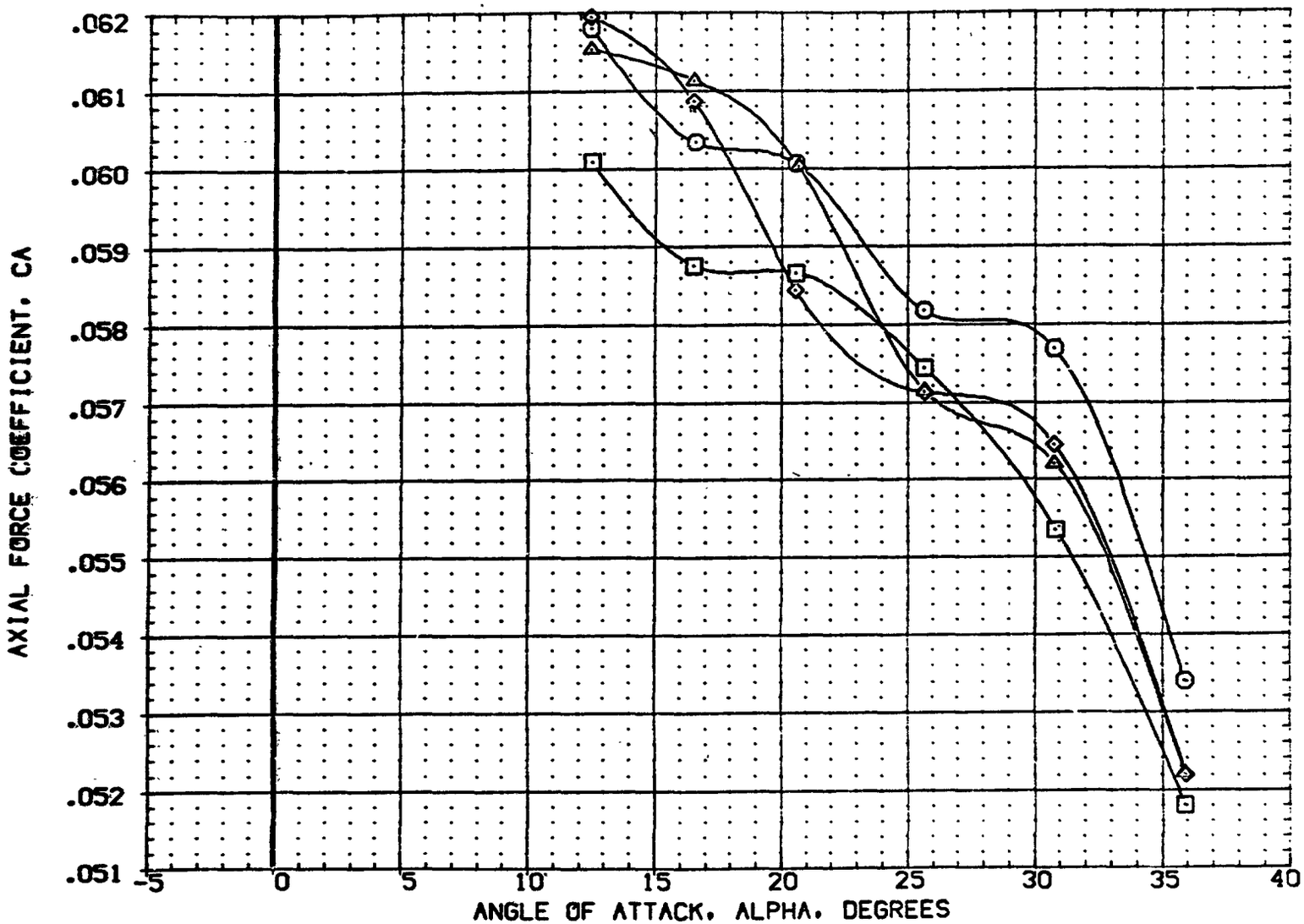
EFFECT OF YAW ANGLE (JET ON)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM031)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN1	5.000	310.000	1.000
(CPM030)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN1	.000	310.000	1.000
(CPM032)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN1	-2.500	310.000	1.000
(CPM033)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN1	-5.000	310.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



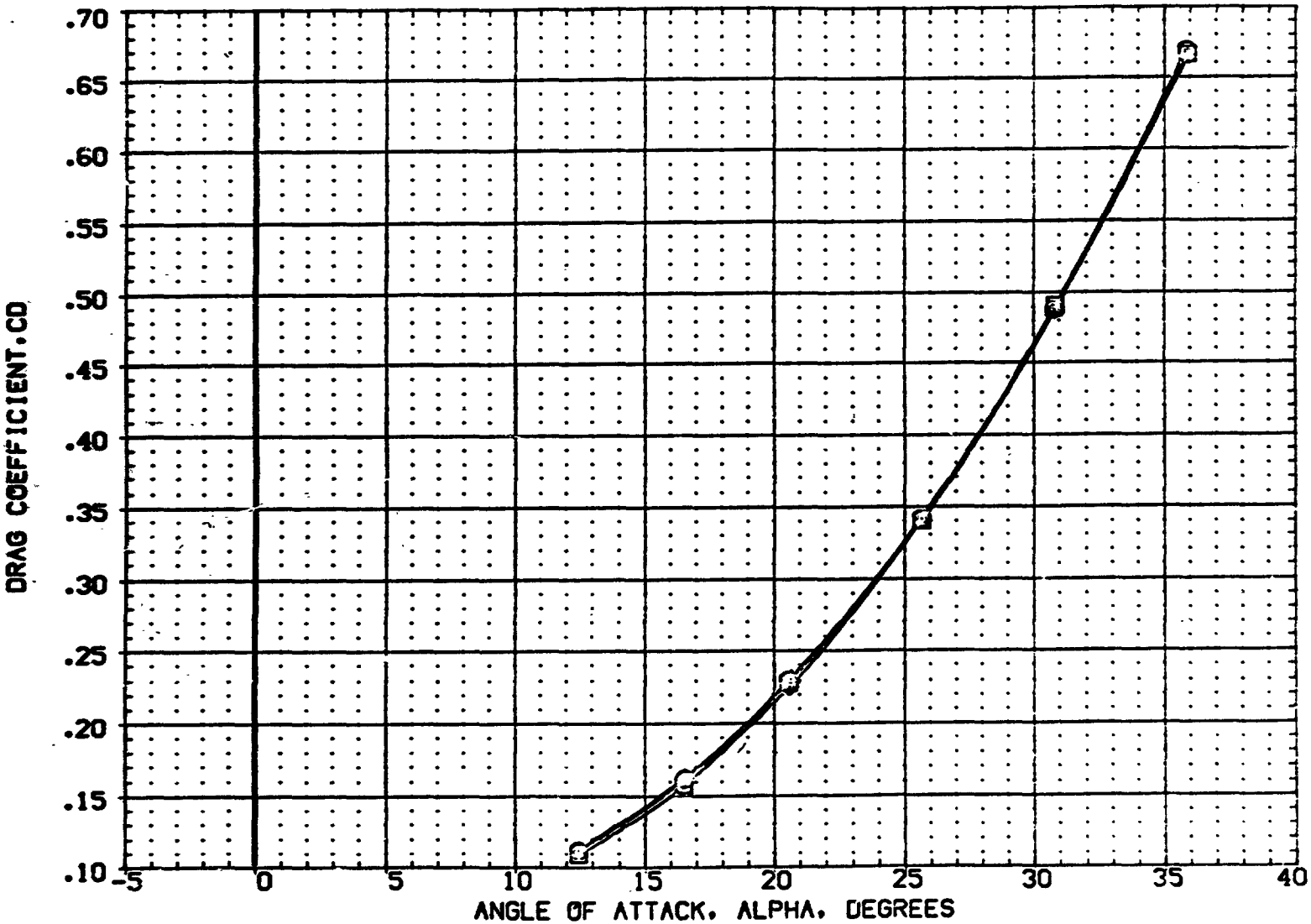
EFFECT OF YAW ANGLE (JET ON)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPH031)	○	MA-7.UPVT 1031.ROCKWELL PRR GRB. CONF. BVTNI	5.000	310.000	1.000
(CPH030)	□	MA-7.UPVT 1031.ROCKWELL PRR GRB. CONF. BVTNI	.000	310.000	1.000
(CPH032)	⊠	MA-7.UPVT 1031.ROCKWELL PRR GRB. CONF. BVTNI	-2.500	310.000	1.000
(CPH033)	△	MA-7.UPVT 1031.ROCKWELL PRR GRB. CONF. BVTNI	-5.000	310.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



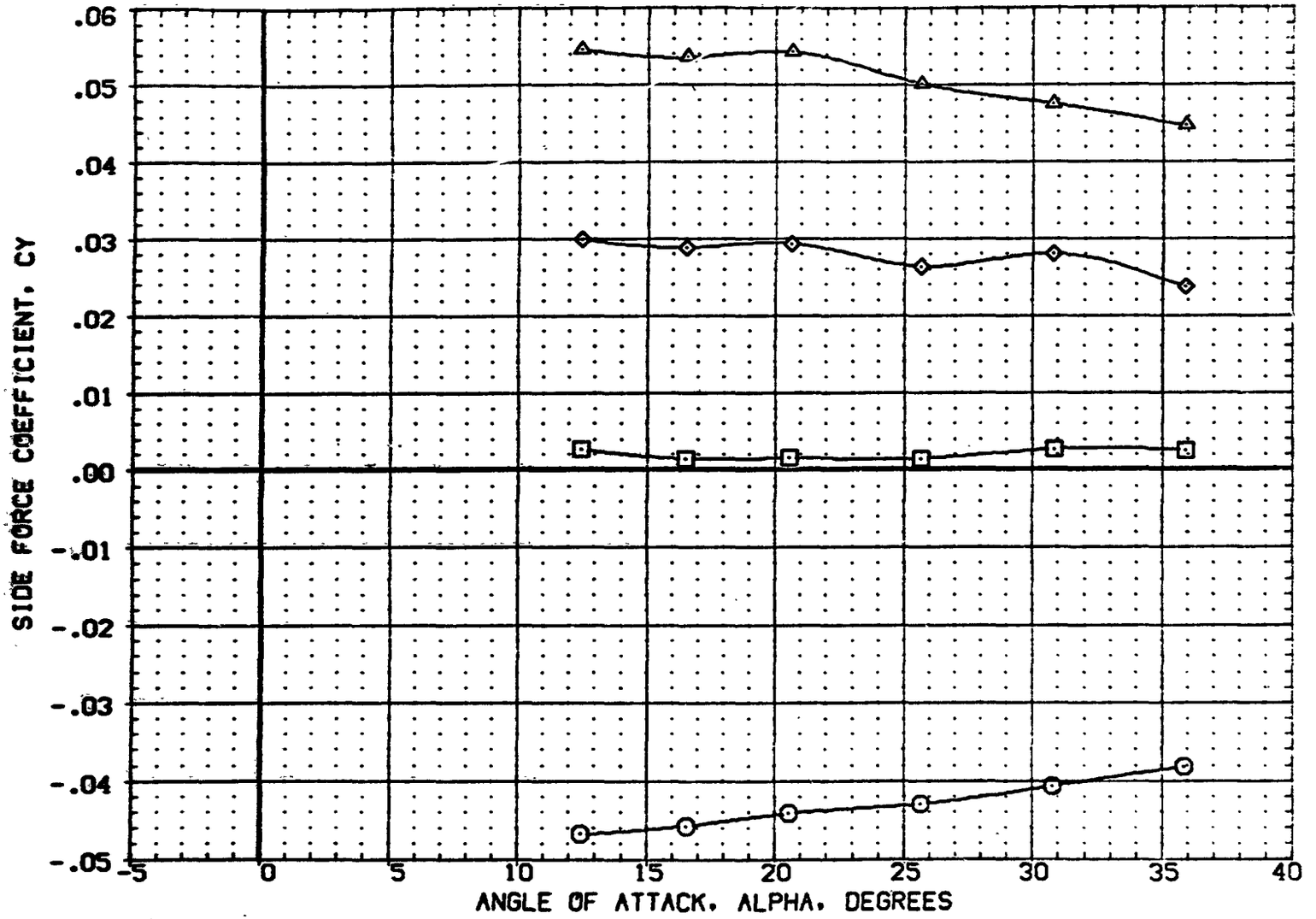
EFFECT OF YAW ANGLE (JET ON)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PG-JET	RN/L
(CPM031)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	5.000	310.000	1.000
(CPM030)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	310.000	1.000
(CPM032)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-2.500	310.000	1.000
(CPM033)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-5.000	310.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

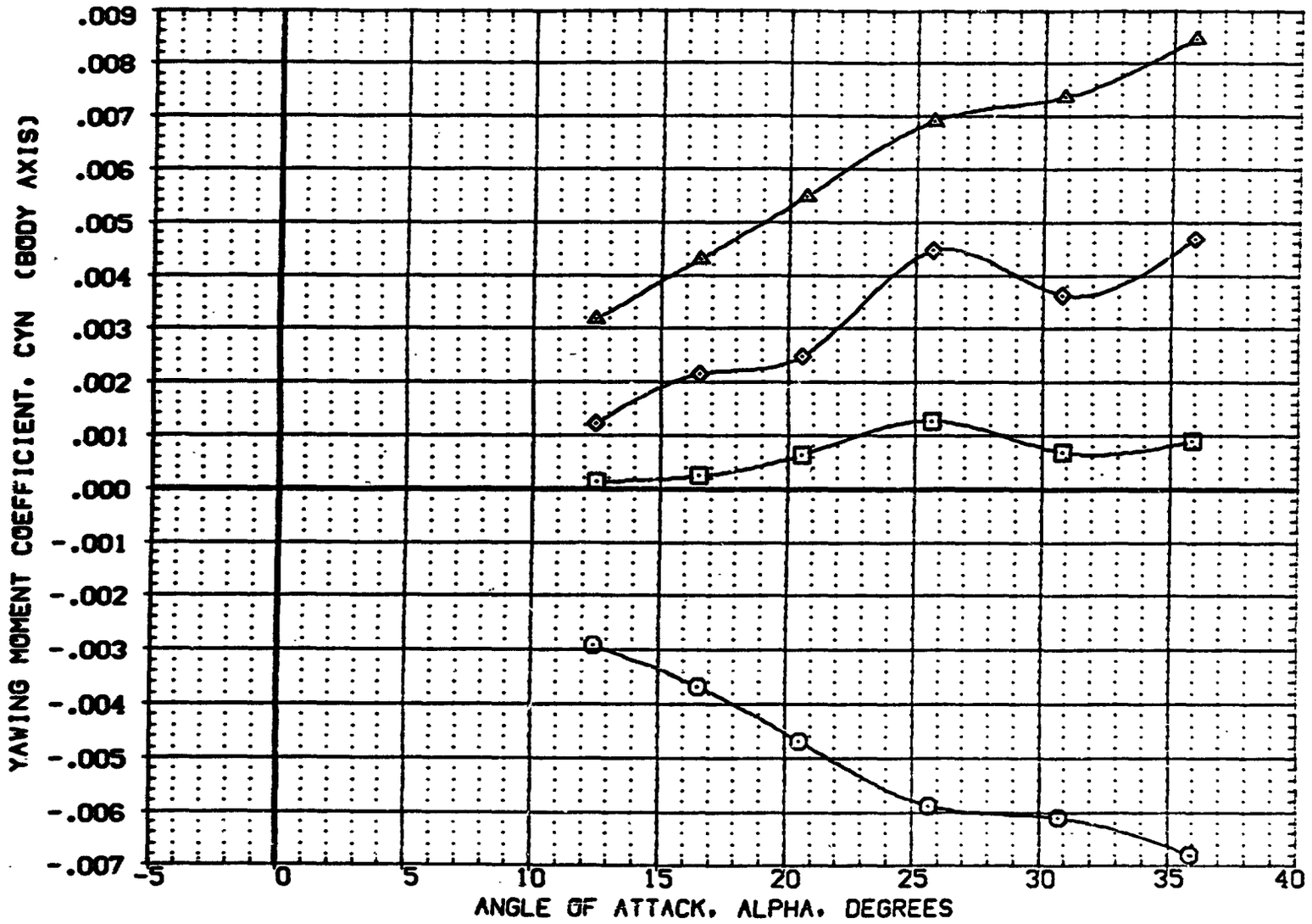


EFFECT OF YAW ANGLE (JET ON)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM031)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	5.000	310.000	1.000
(CPM030)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(CPM032)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-2.500	310.000	1.000
(CPM033)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	310.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



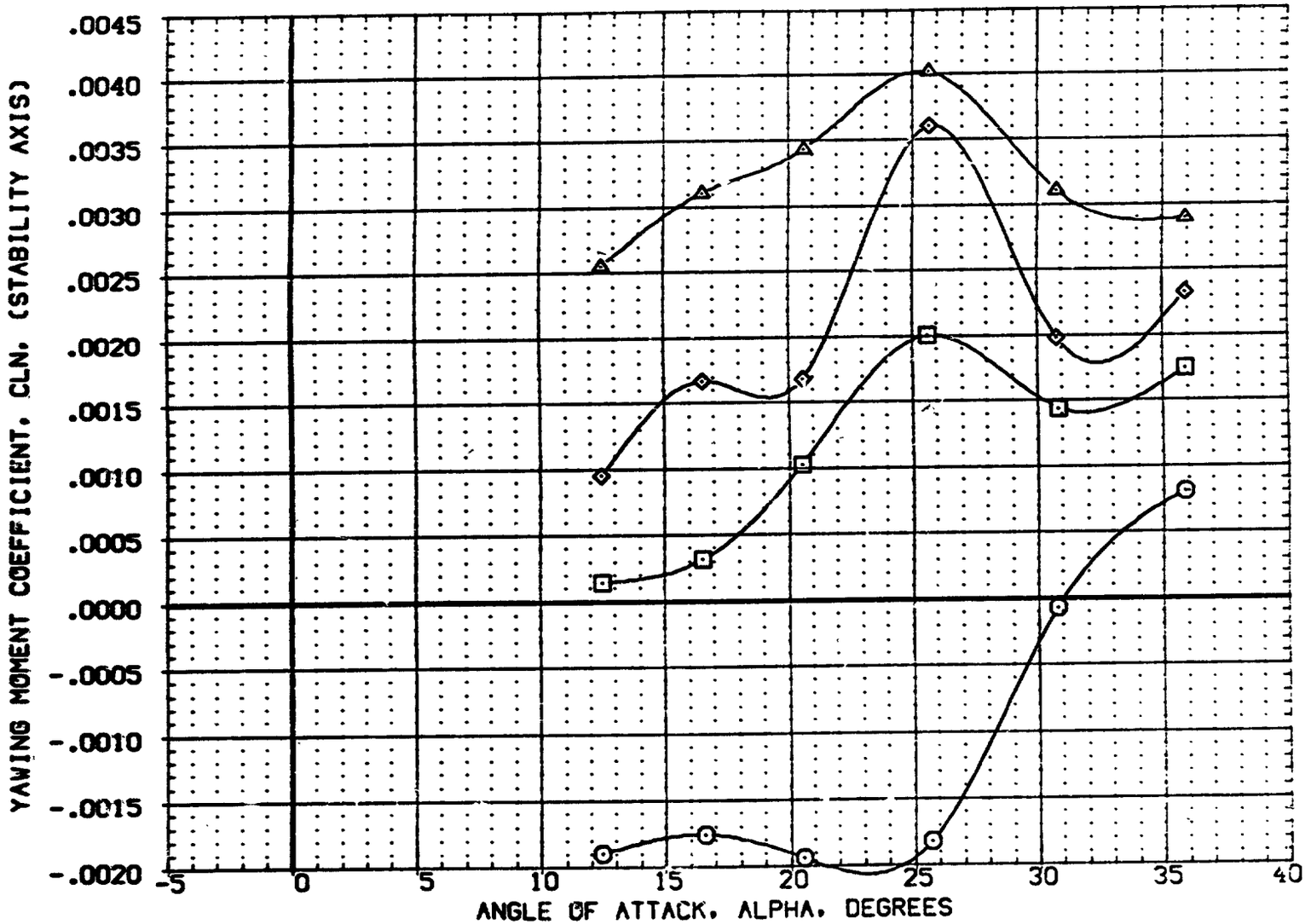
EFFECT OF YAW ANGLE (JET ON)

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM031)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	5.000	310.000	1.000
(CPM030)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	310.000	1.000
(CPM032)	⊠	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-2.500	310.000	1.000
(CPM033)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-5.000	310.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.95[illegible]	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

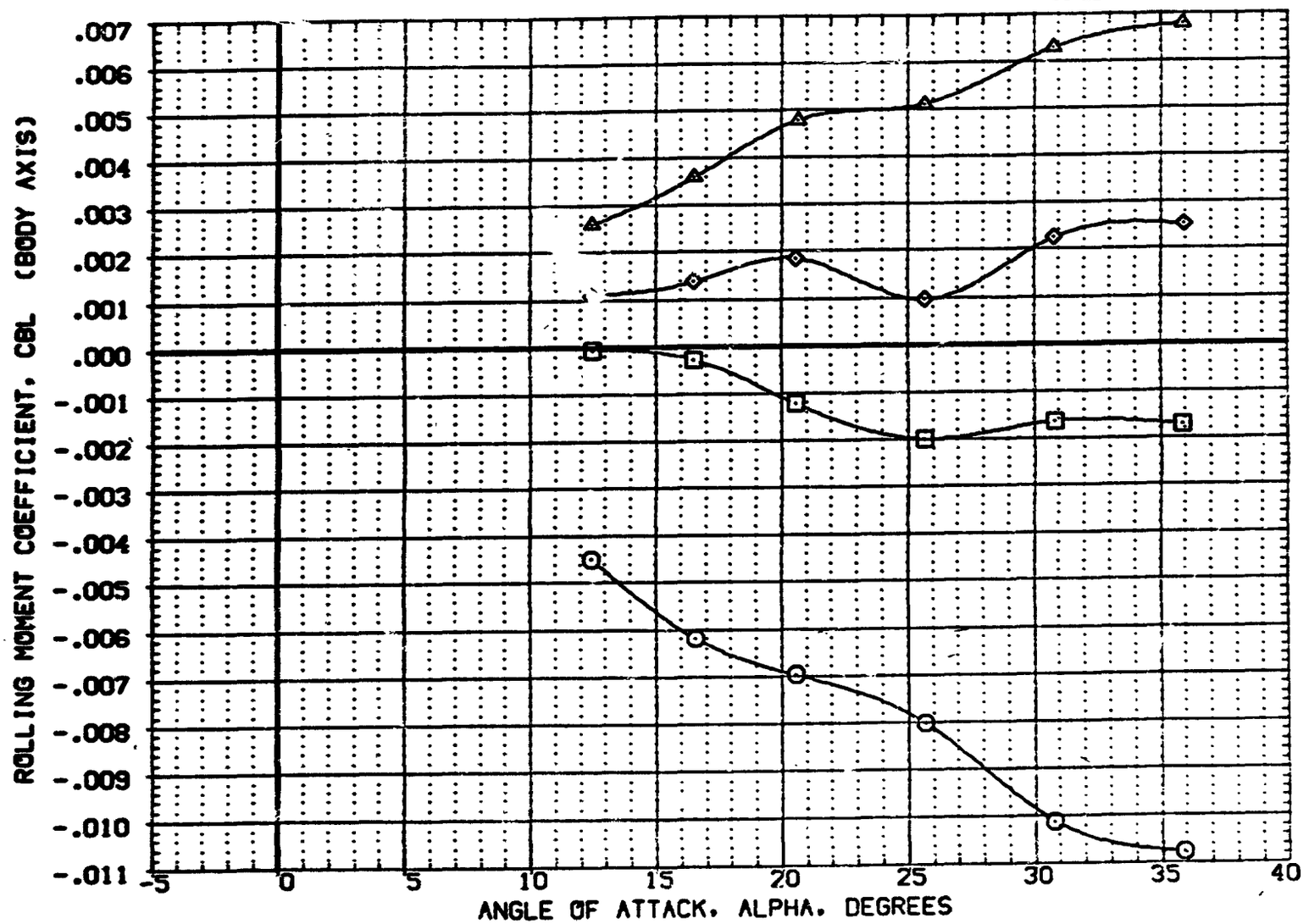


EFFECT OF YAW ANGLE (JET ON)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPH031)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	5.000	310.000	1.000
(CPH030)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(CPH032)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-2.500	310.000	1.000
(CPH033)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	310.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



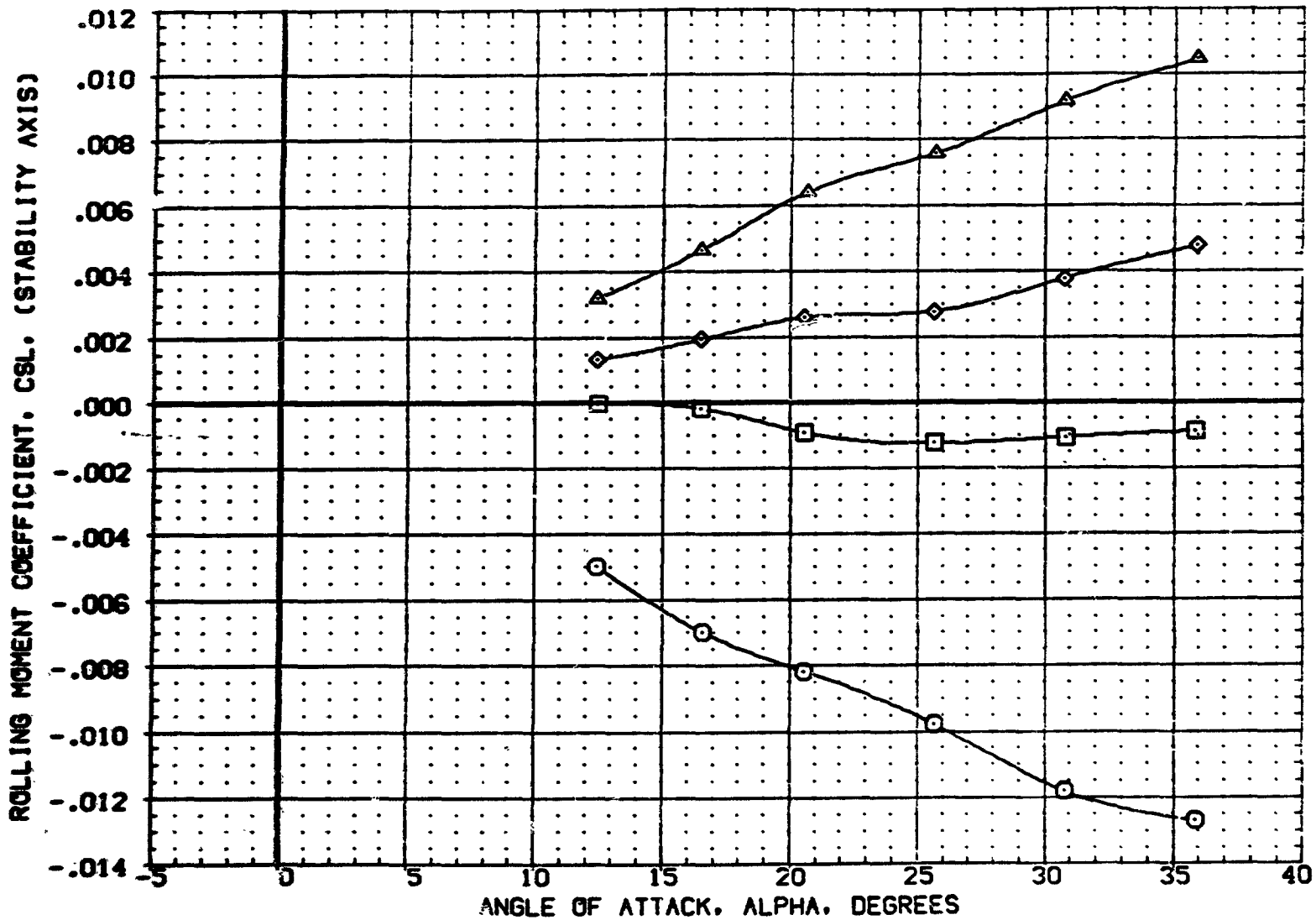
EFFECT OF YAW ANGLE (JET ON)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM031)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	5.000	310.000	1.000
(CPM030)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	.000	310.000	1.000
(CPM032)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	-2.500	310.000	1.000
(CPM033)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN1	-5.000	310.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



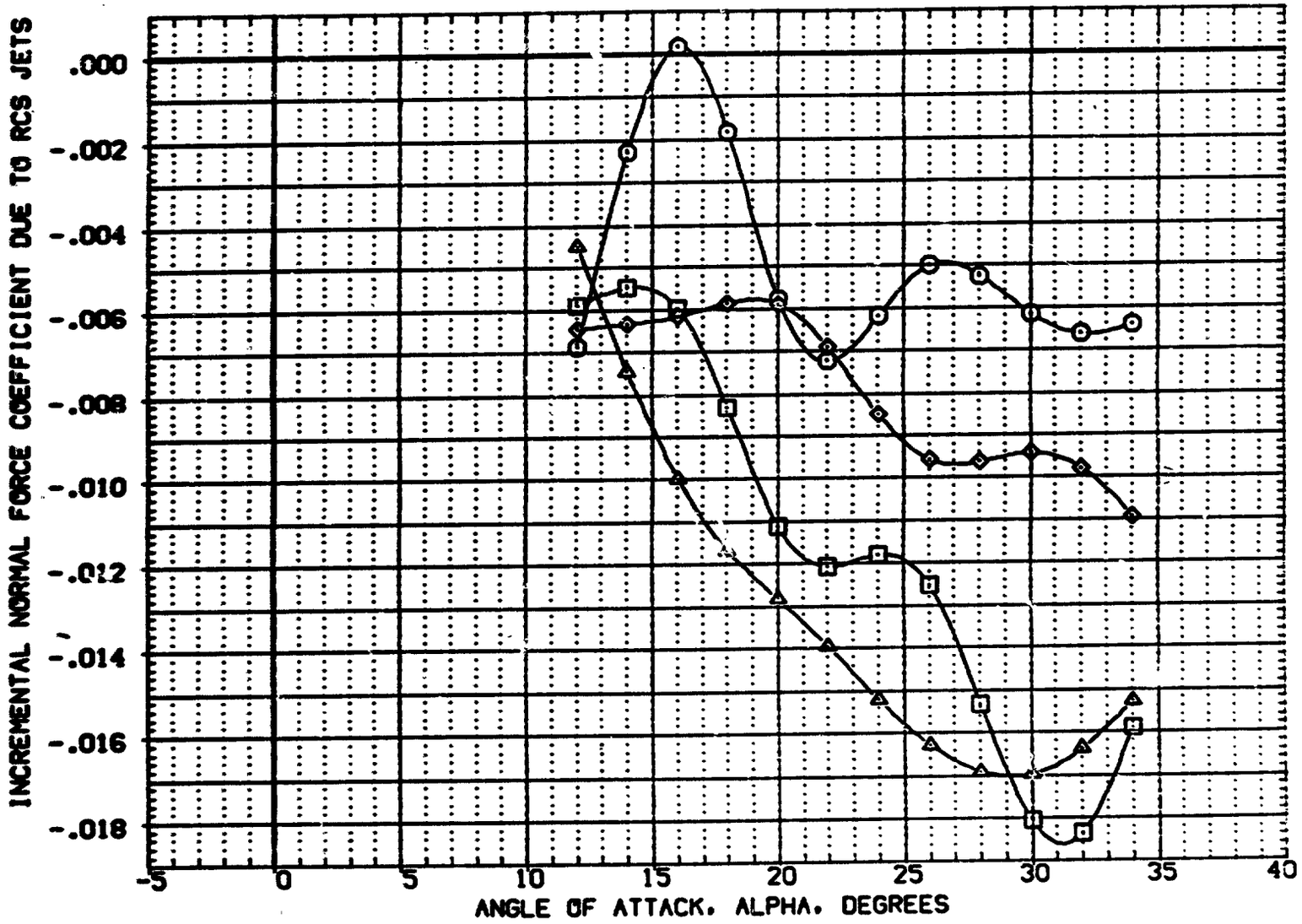
EFFECT OF YAW ANGLE (JET ON)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH026)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	35.000	1.000
(APH029)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	188.000	1.000
(APH030)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	310.000	1.000
(APH035)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.95	INCHES
YMRP	.000	INCHES
ZMRP	6.000	INCHES
SCALE	.0150	



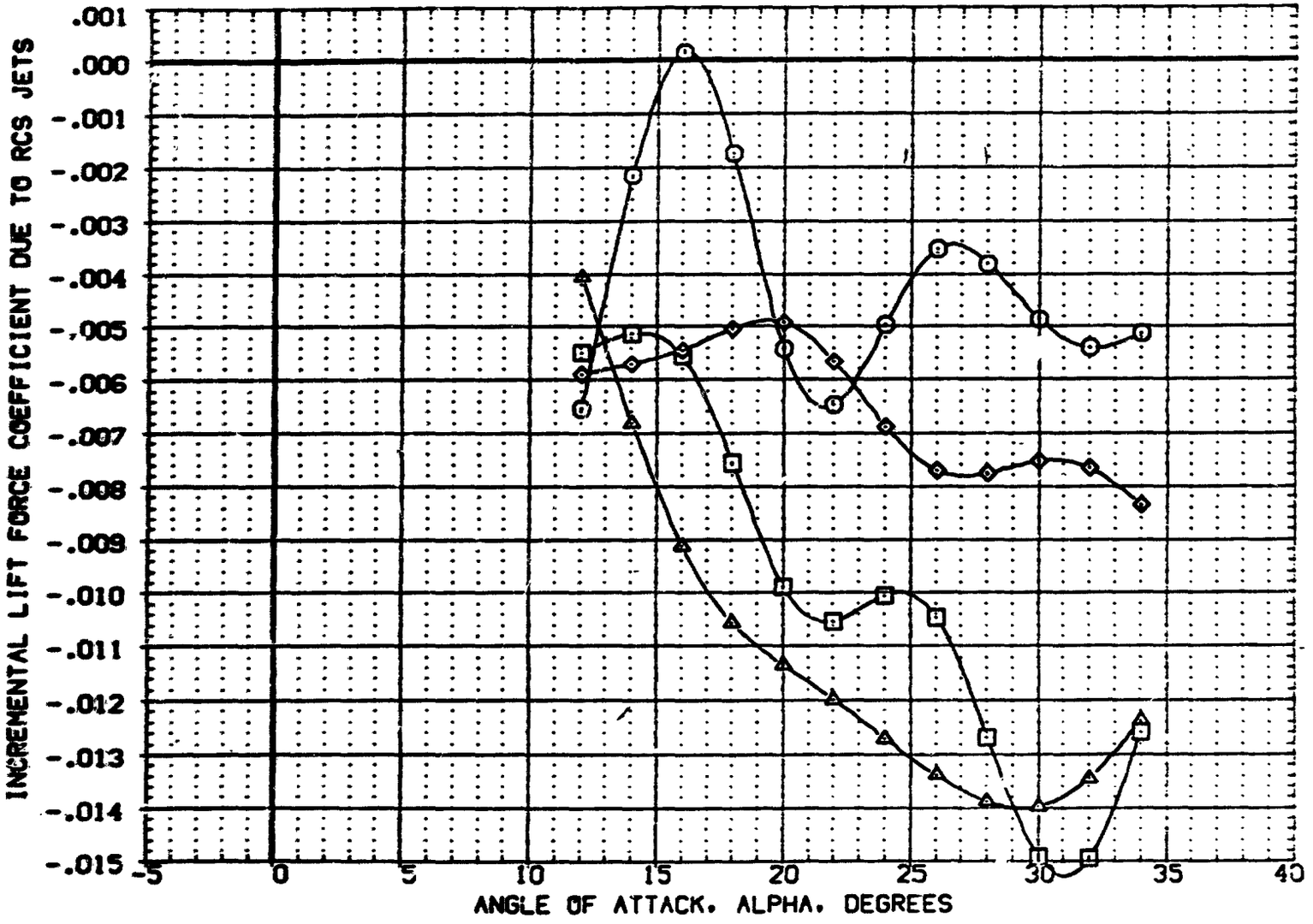
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM026)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTNI	.000	35.000	1.000
(APM029)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTNI	.000	188.000	1.000
(APM032)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTNI	.000	310.000	1.000
(APM035)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTNI	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.9628	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0100	



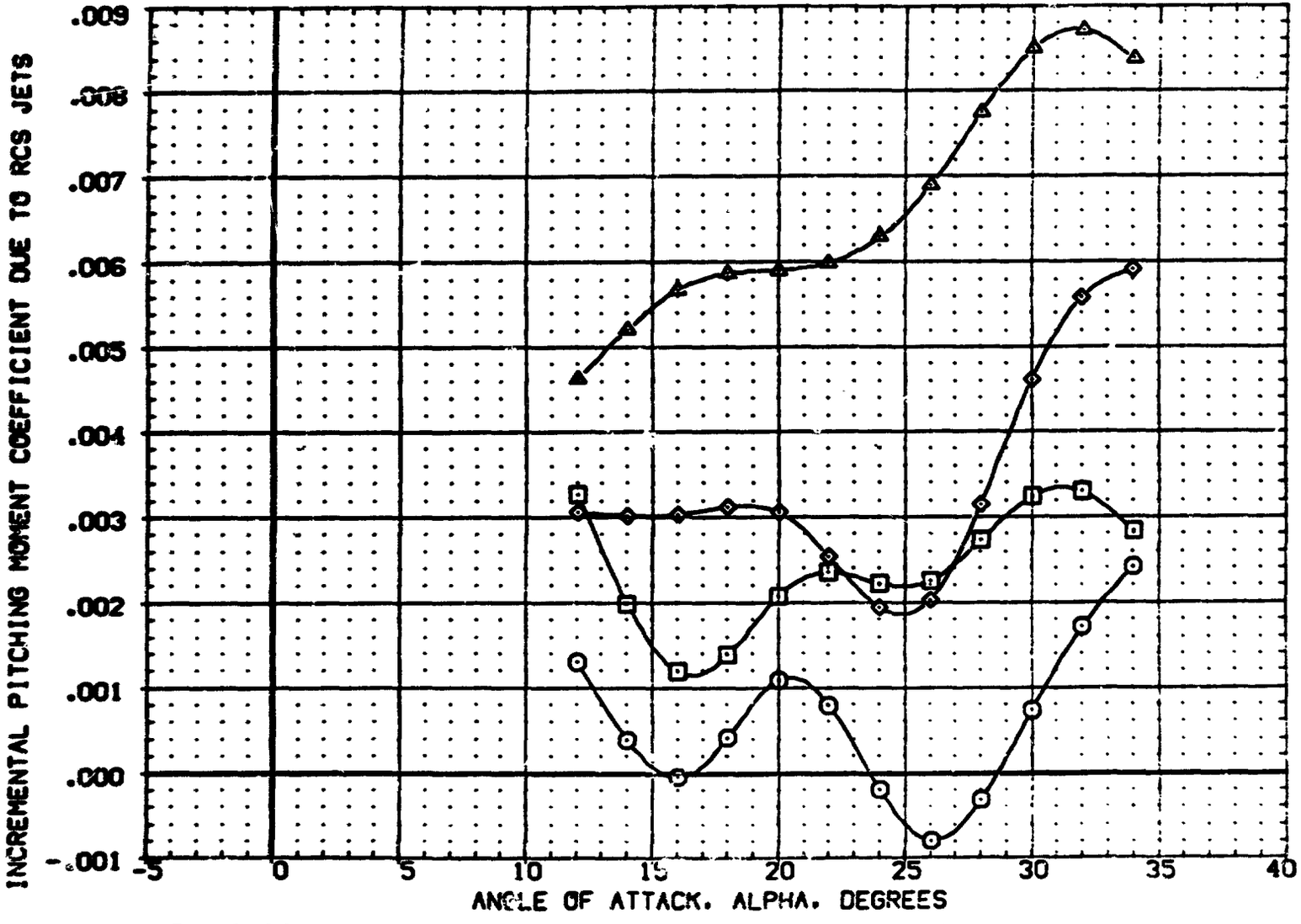
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH026)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	35.000	1.000
(APH029)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	188.000	1.000
(APH030)	⋈	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	310.000	1.000
(APH035)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMC	12.9510	INCHES
YMC	.0000	INCHES
ZMC	6.0000	INCHES
SCALE	.0150	



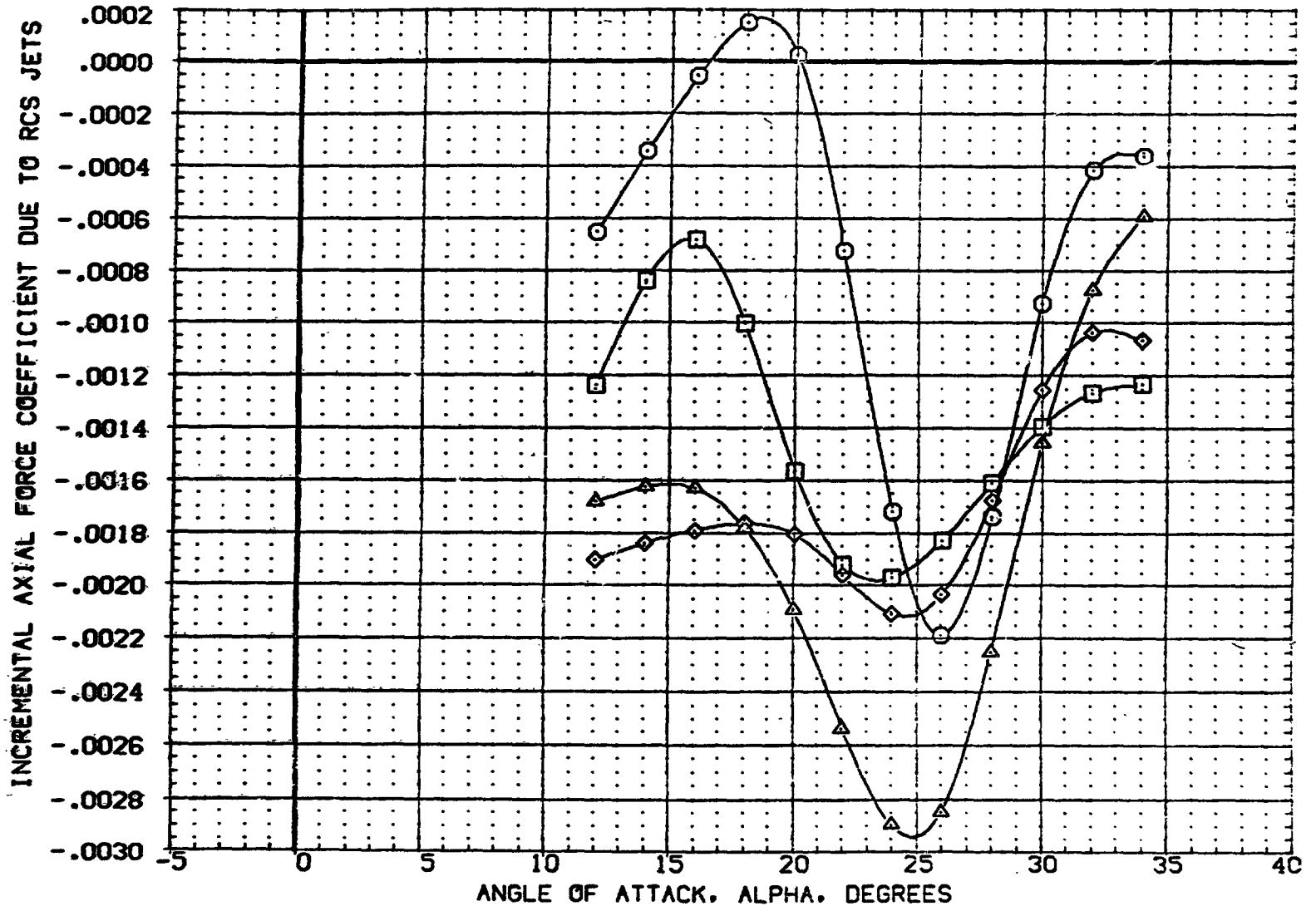
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM026)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	35.000	1.000
(APM029)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	188.000	1.000
(APM03C)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(APM035)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

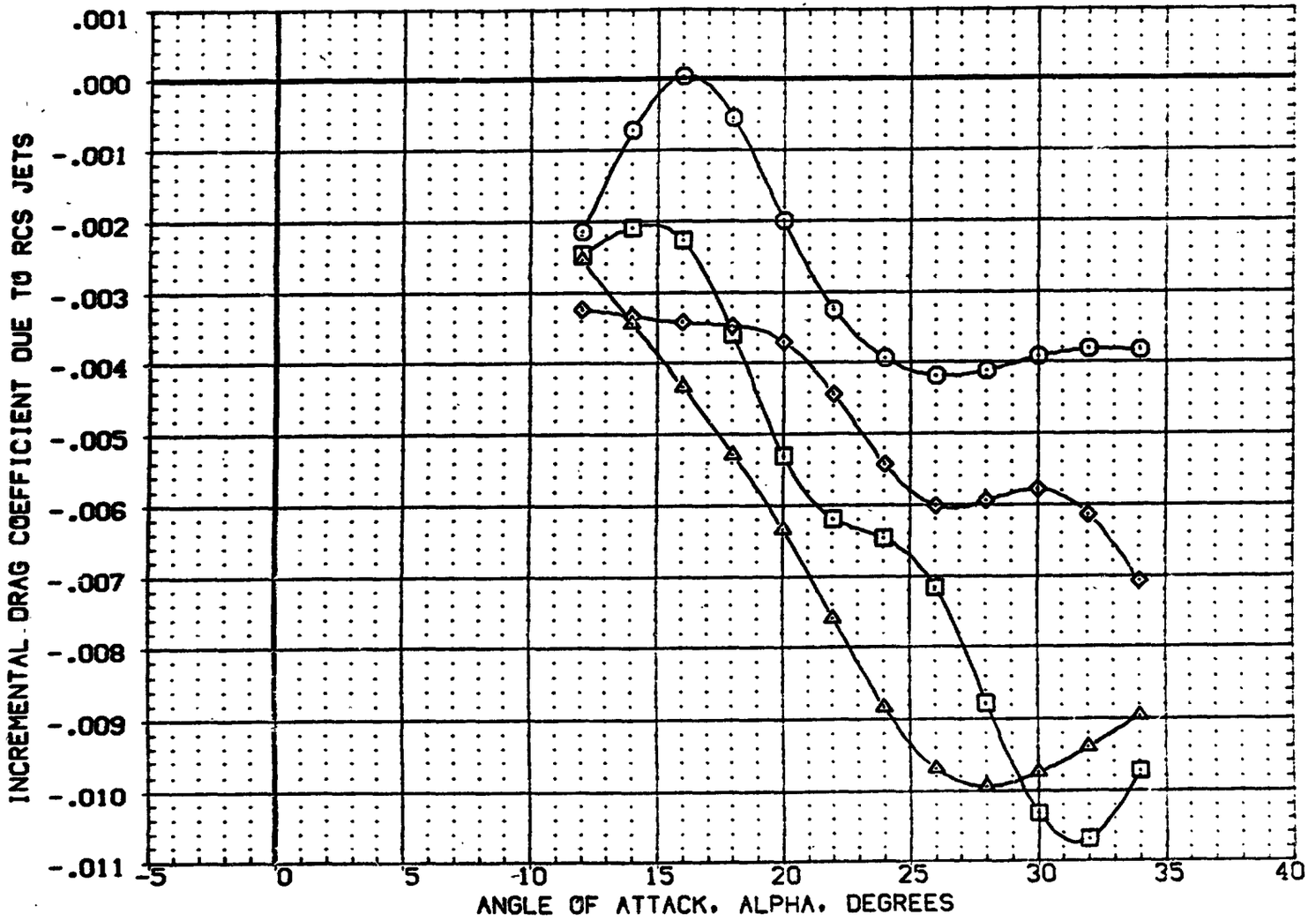


YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM026)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	35.000	1.000
(APM029)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	188.000	1.000
(APM030)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(APM035)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



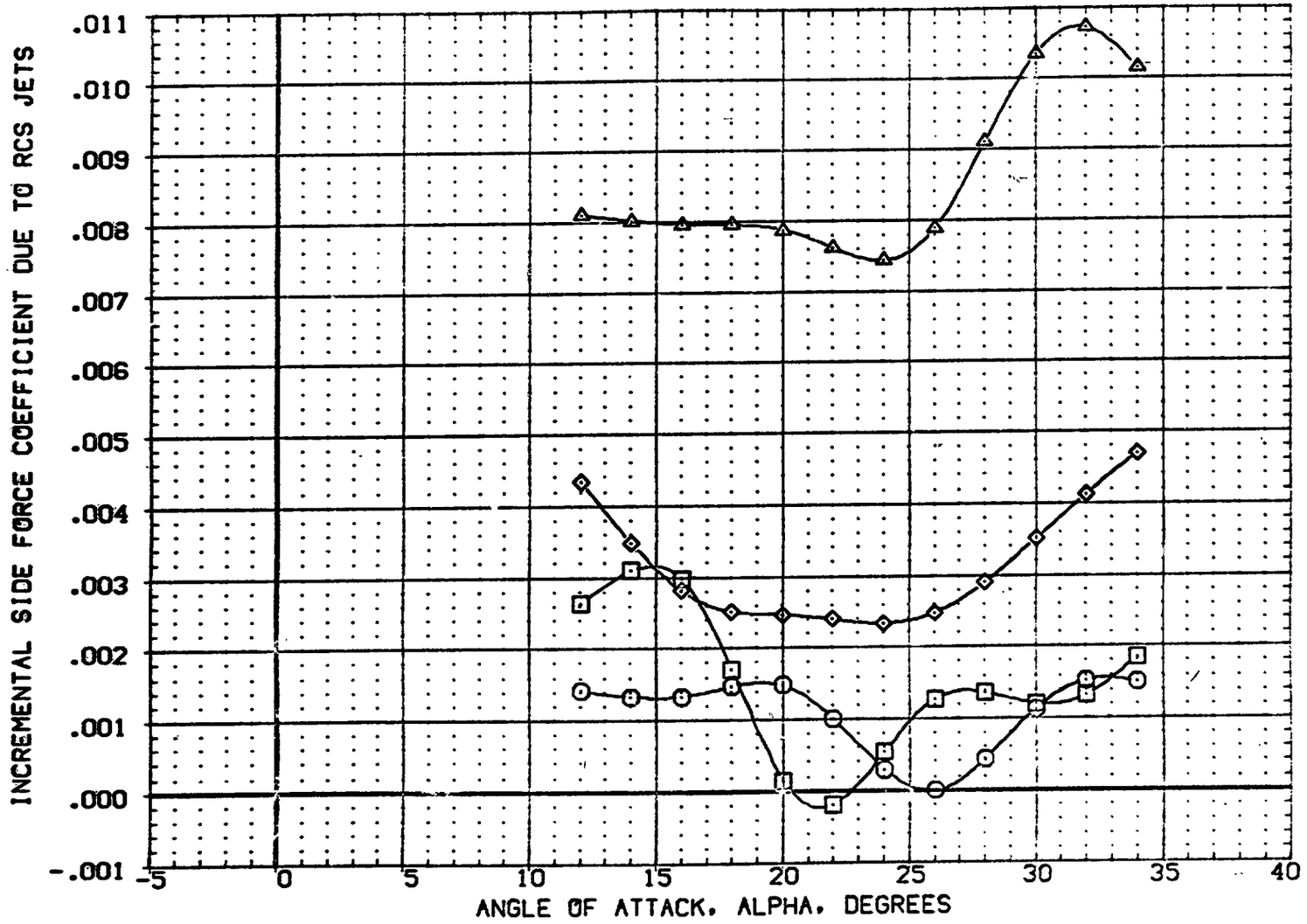
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM026)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN1	.000	35.000	1.000
(APM029)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN1	.000	188.000	1.000
(APM030)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN1	.000	310.000	1.000
(APM035)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN1	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



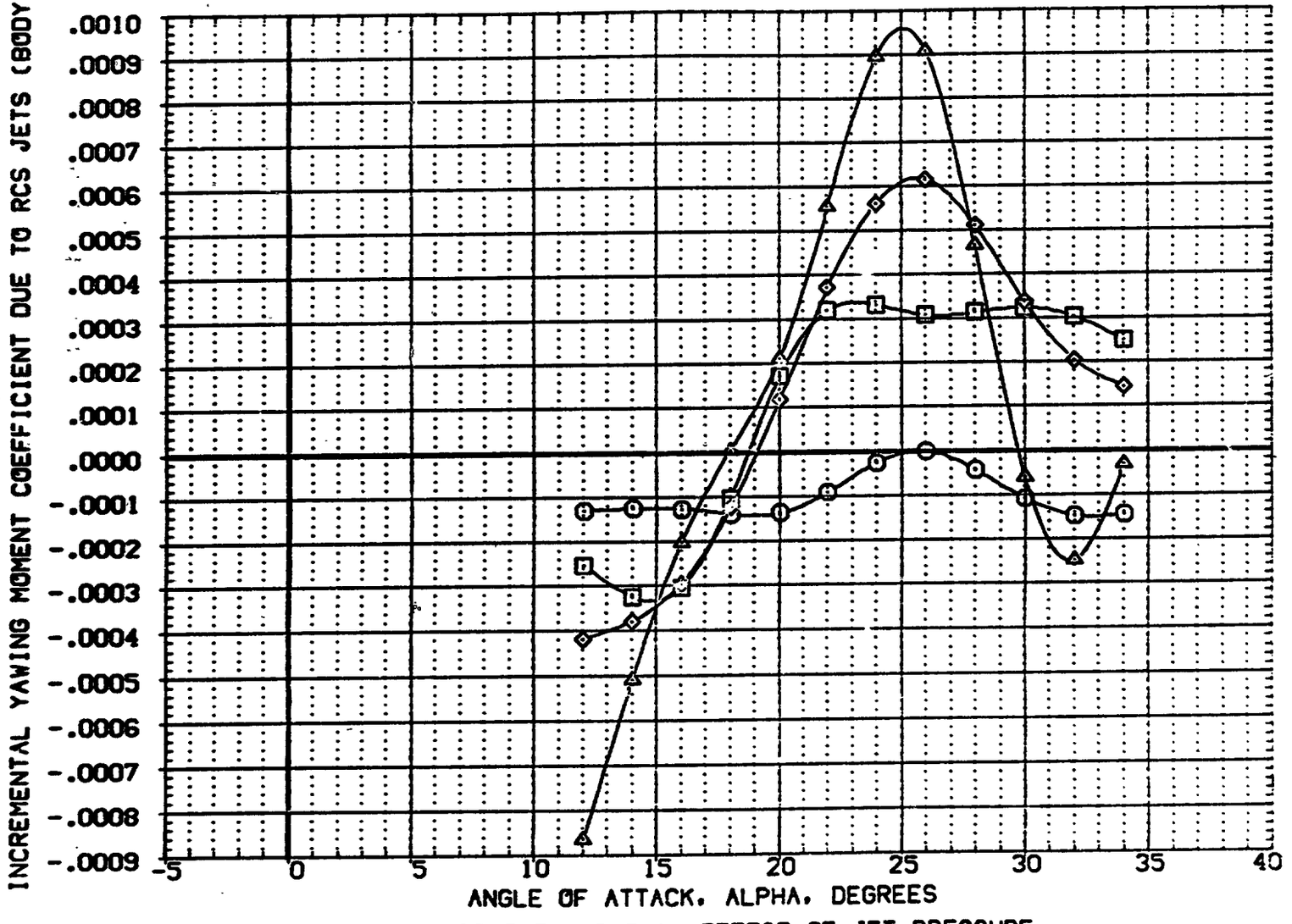
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM026)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	35.000	1.000
(APM029)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	183.000	1.000
(APM030)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(APM035)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8829	
BREF	15.1152	
XMRP	12.95[illegible]	
YMRP	[illegible]	
ZMRP	6.[illegible]	
SCALE	.0150	



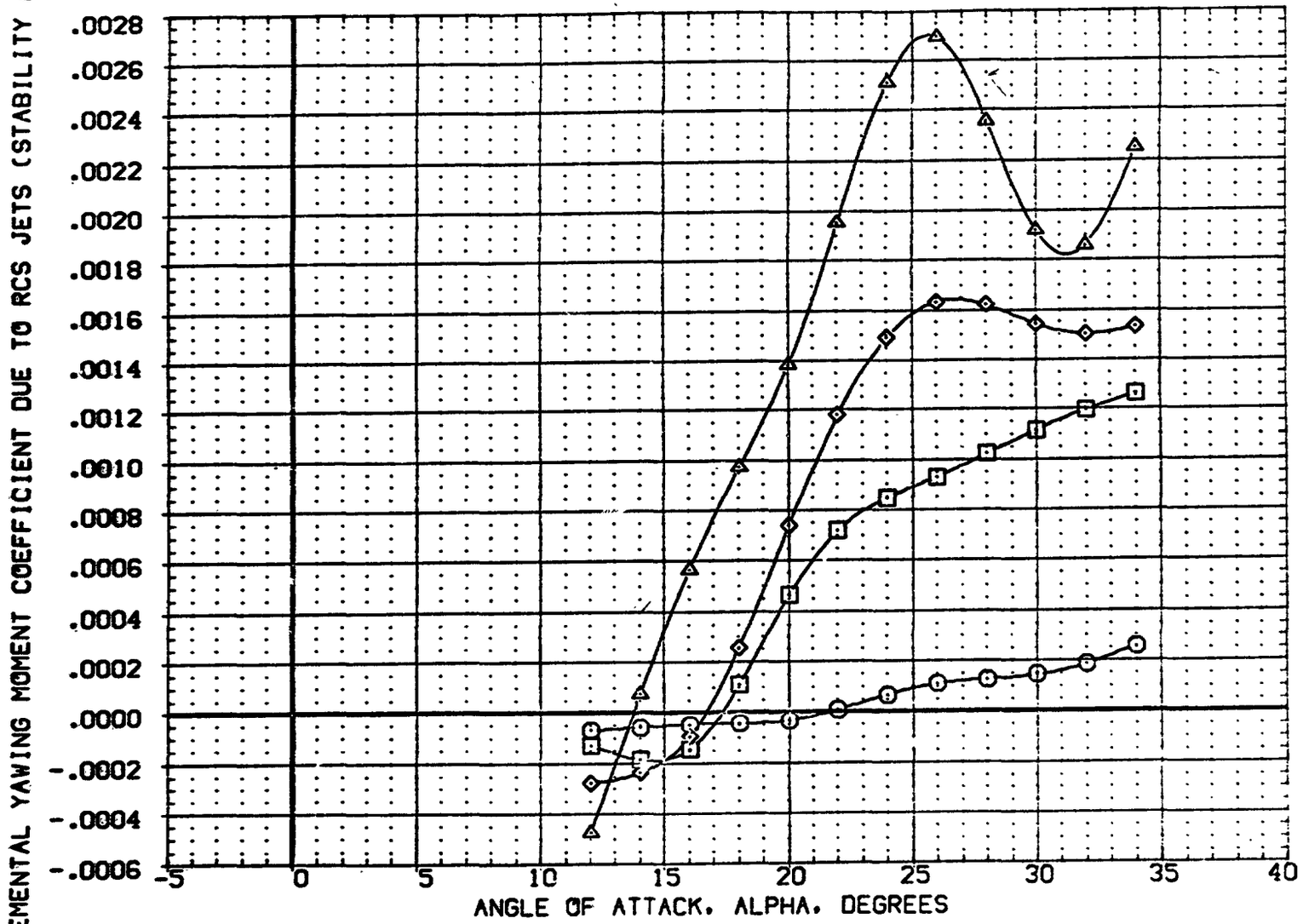
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM026) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	35.000	1.000
(APM029) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	188.000	1.000
(APM030) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	310.000	1.000
(APM[illegible]15) △	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

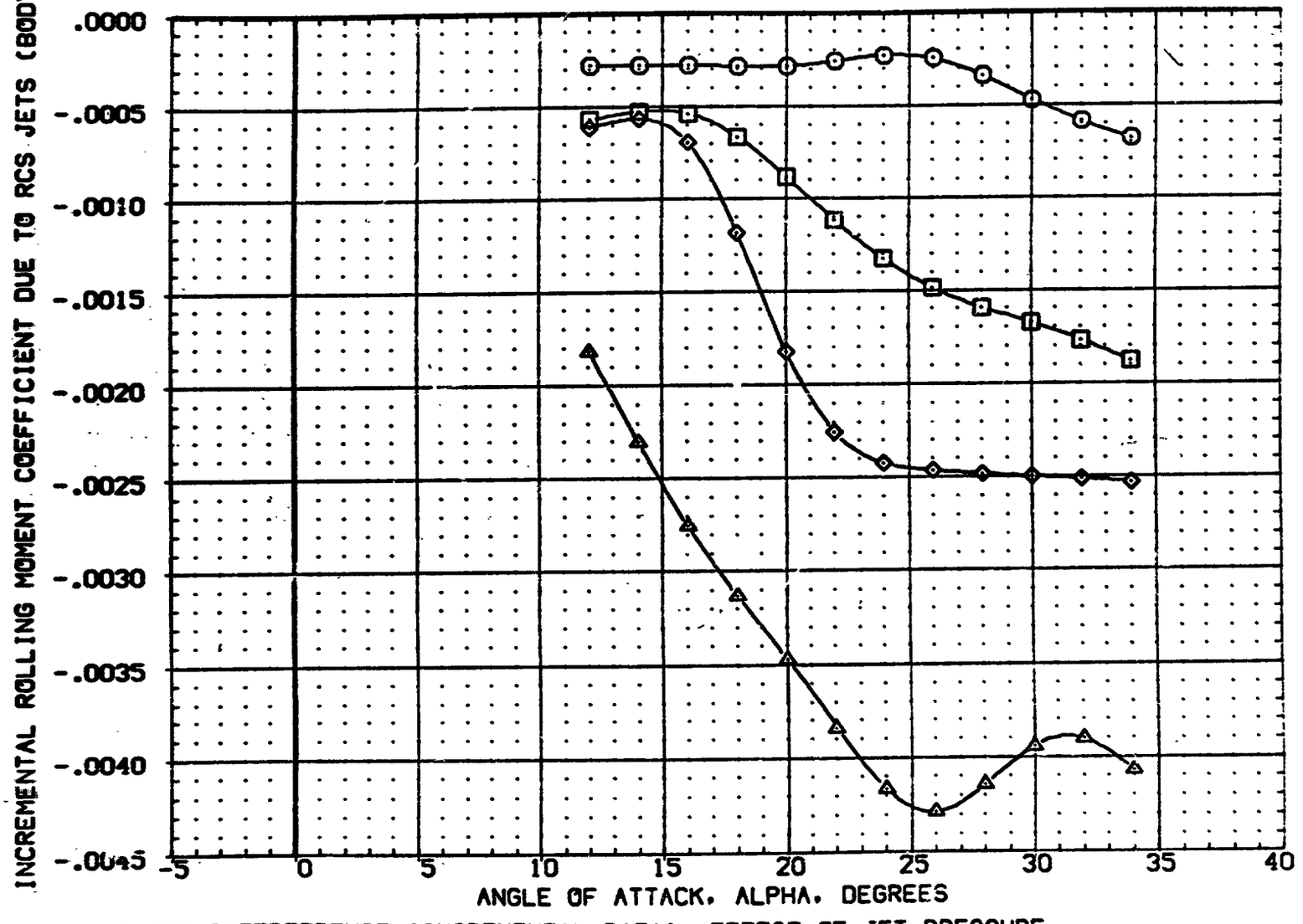


YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM026) ○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	.000	35.000	1.000
(APM029) □	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	.000	188.000	1.000
(APM030) ◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	.000	310.000	1.000
(APM035) △	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

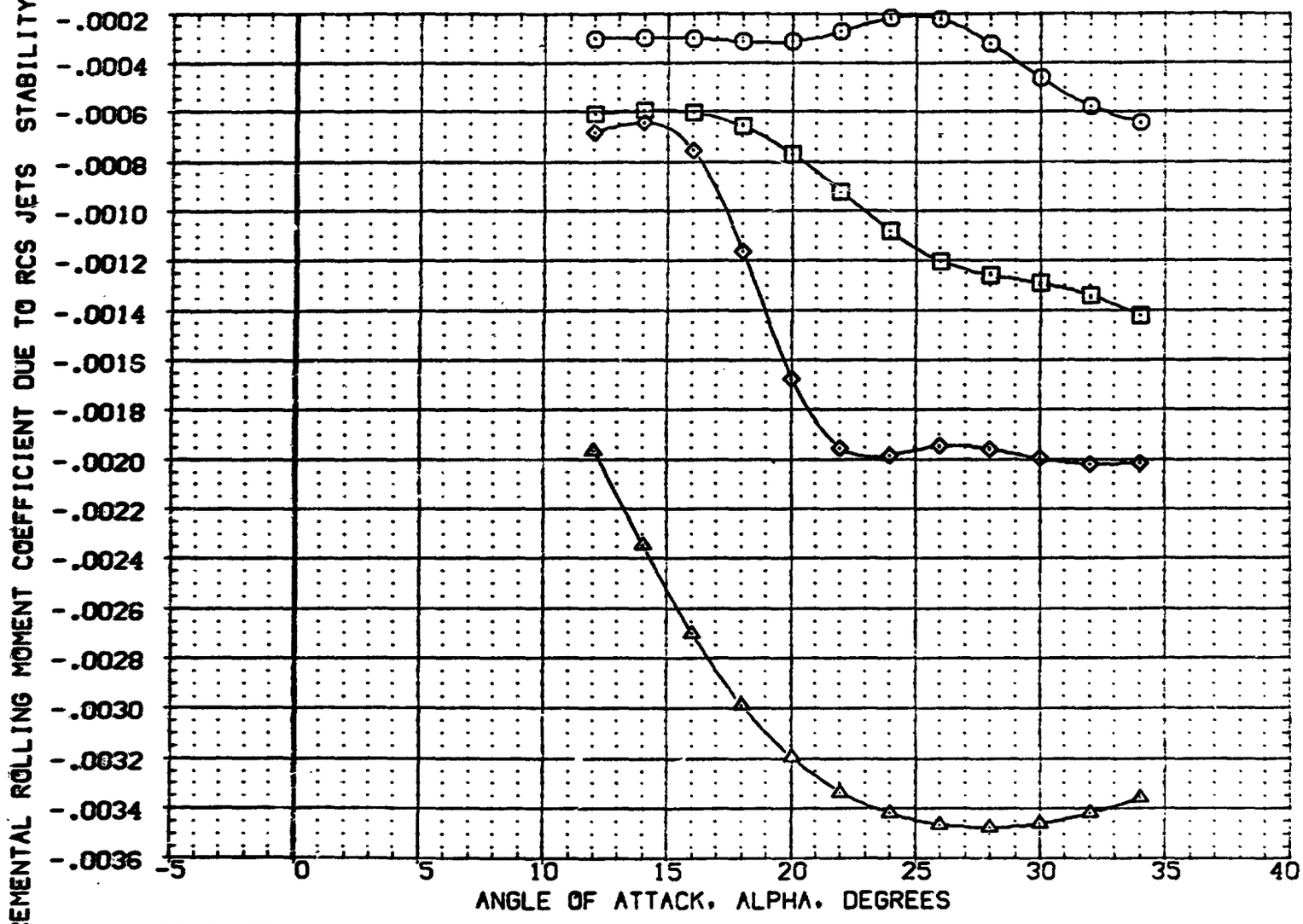


YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM026)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	35.000	1.000
(APM029)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	188.000	1.000
(APM030)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(APM035)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



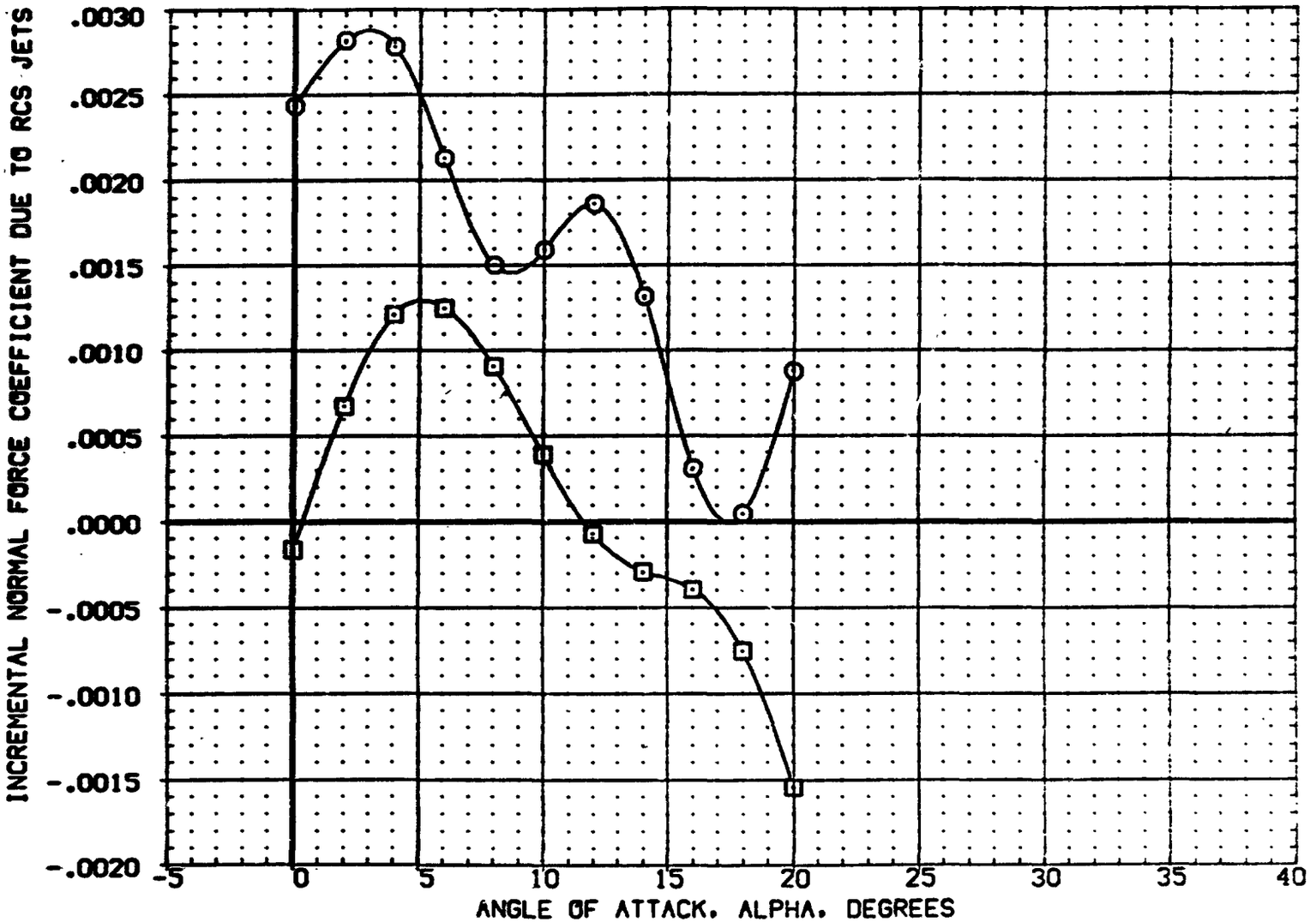
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM018)	8	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	187.000	3.000
(APM019)	8	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	187.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



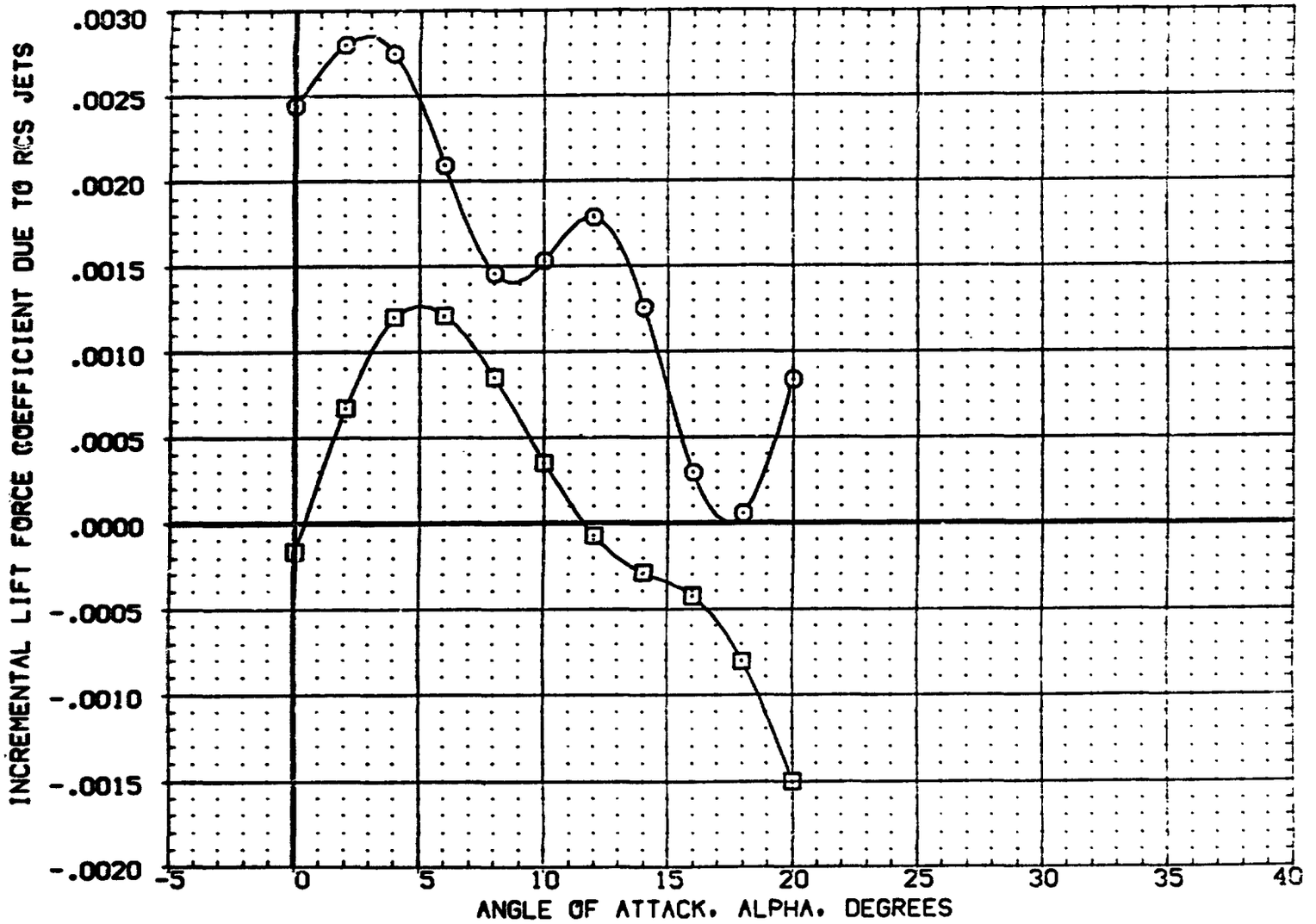
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APHD18)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	187.000	3.000
(APHD19)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-5.000	187.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

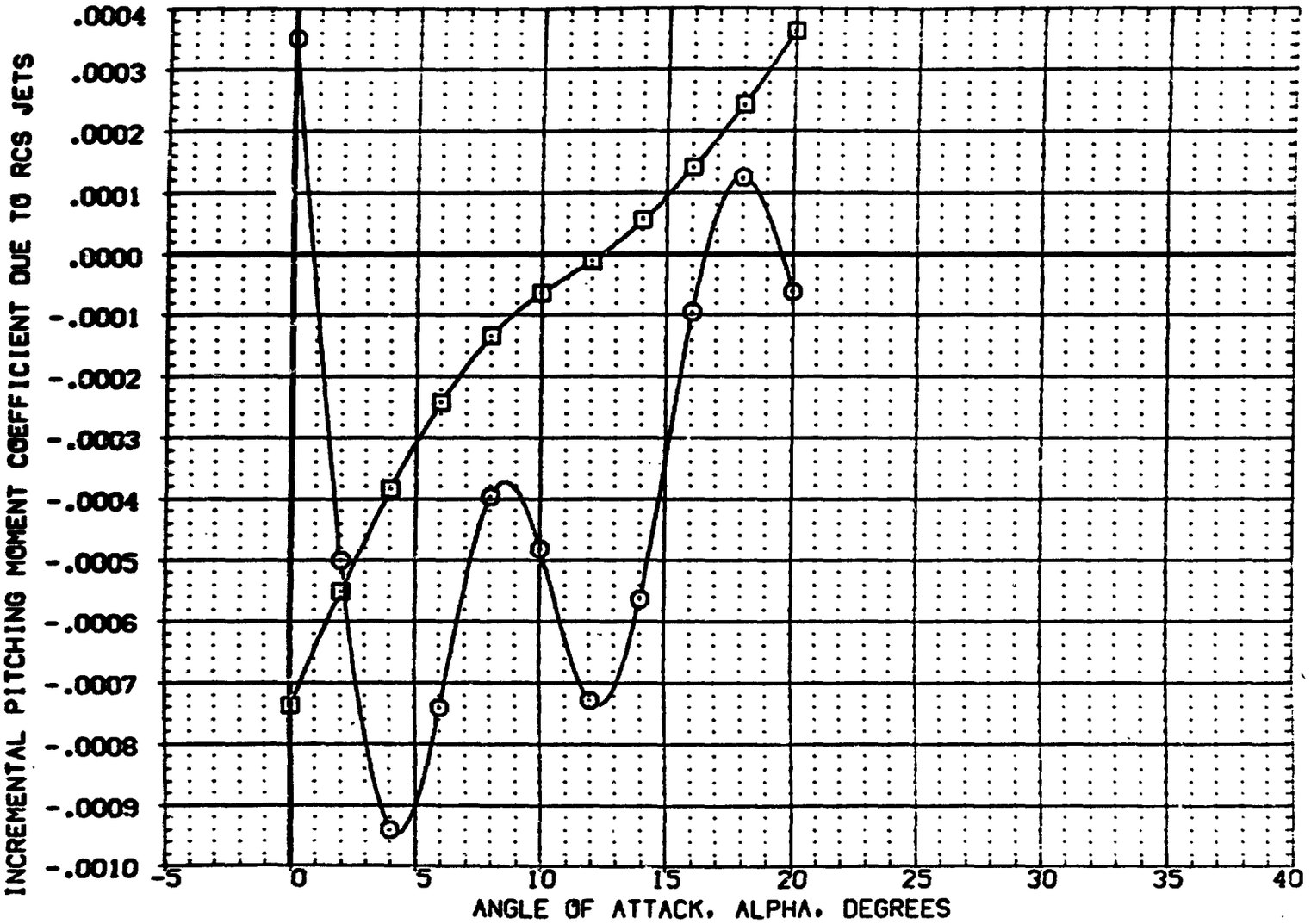


YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH018)	8	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	187.000	3.000
(APH019)	8	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-5.000	187.000	3.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



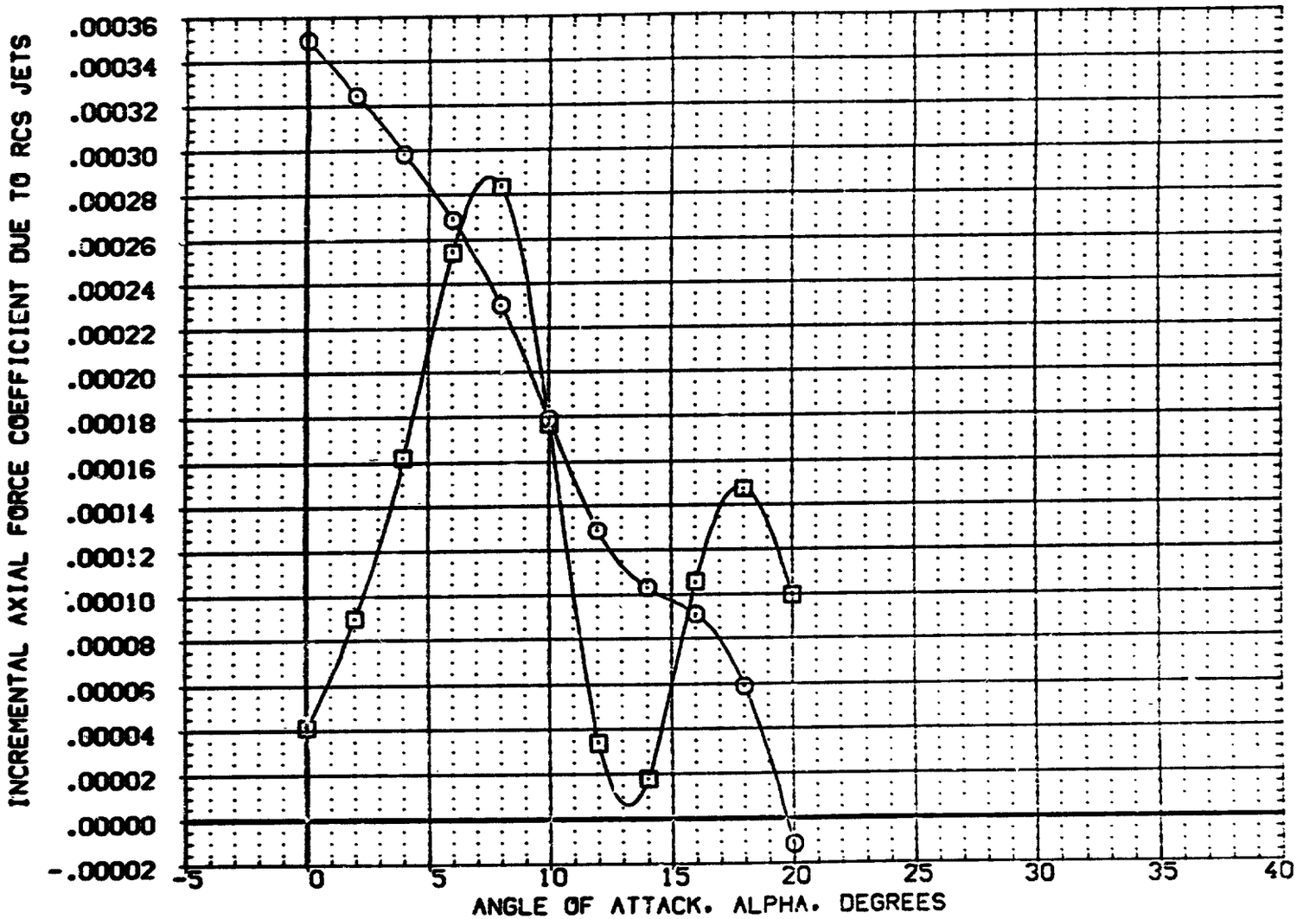
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH018) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	187.000	3.000
(APH019) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	187.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

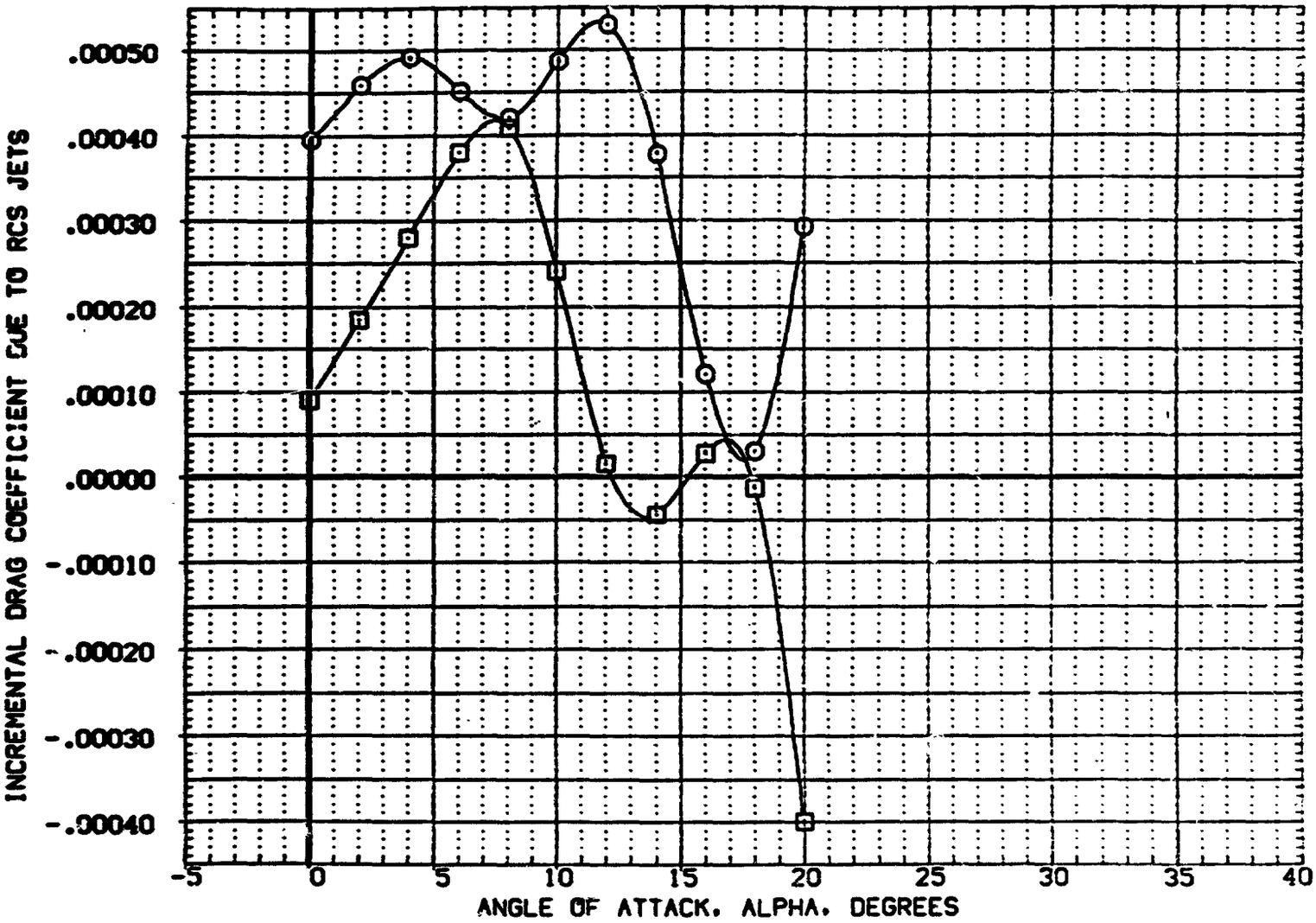


YAW JET INTERFERENCE (INCREMENTAL DATA). EFFECT OF SIDESLIP ANGLE

(A)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH018)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	.000	187.000	3.000
(APH019)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	-5.000	187.000	3.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



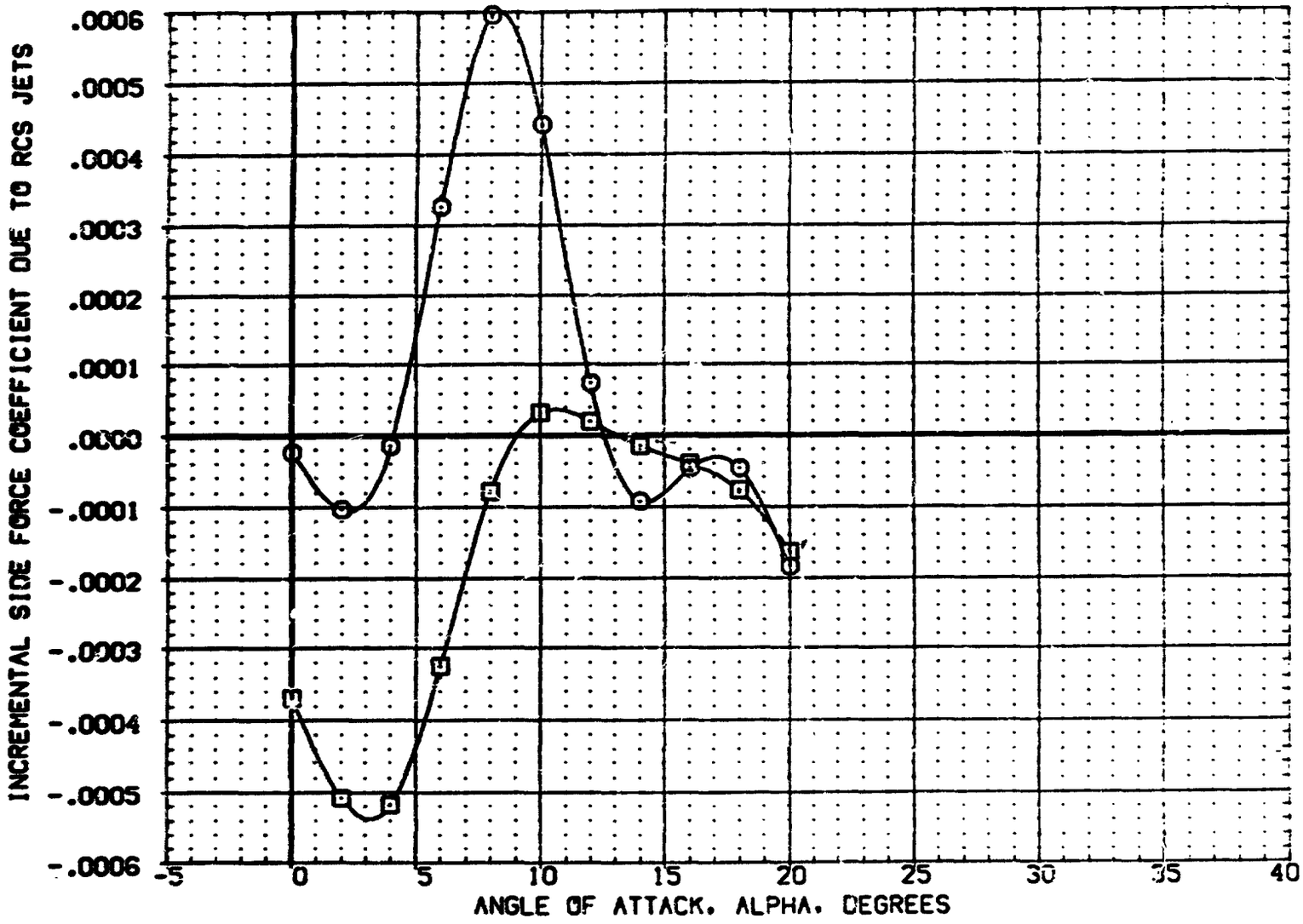
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH018) 8	MA-7.:PVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	187.000	3.000
(APH019) 8	MA-7.:PVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	187.000	3.000

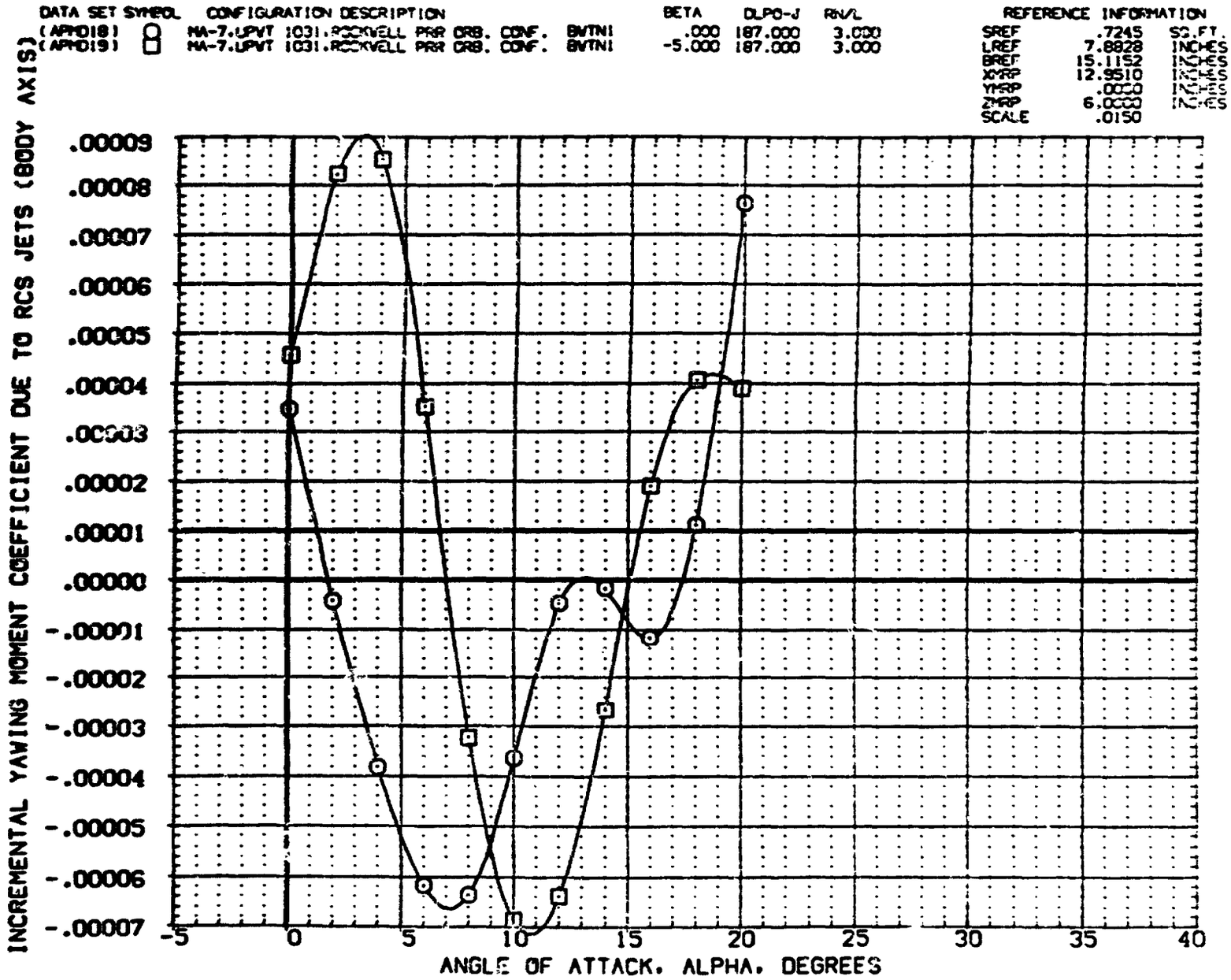
REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8628	INCHES
BREF	15.1152	INCHES
XMRP	12.9610	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(Ā)MACH = 2.50



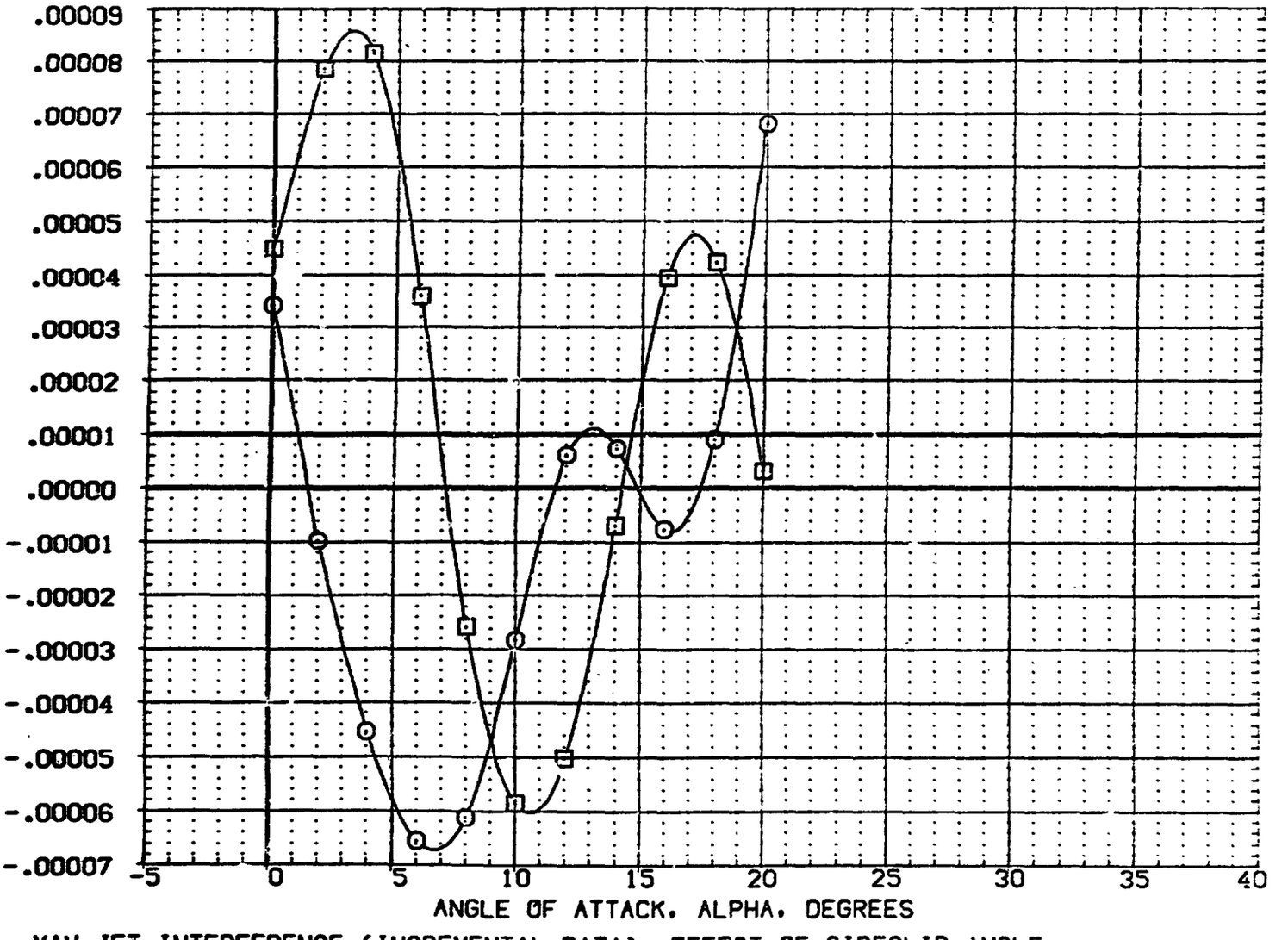
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	OLPO-J	RN/L
(APMD18) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	187.000	3.000
(APMD19) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-5.000	187.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



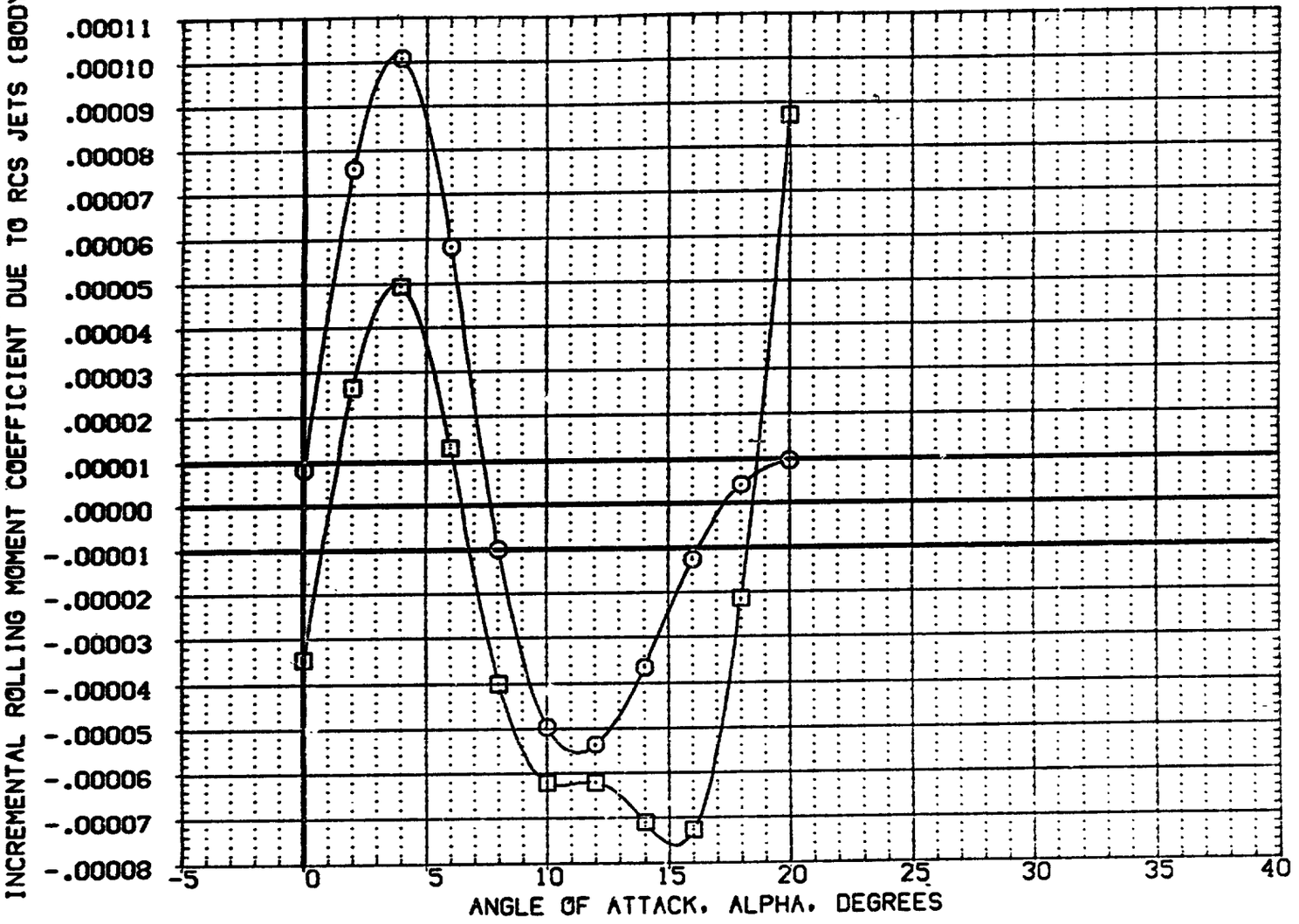
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD18) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	187.000	3.000
(APMD19) □	MA-7.UPVT 103I.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	187.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



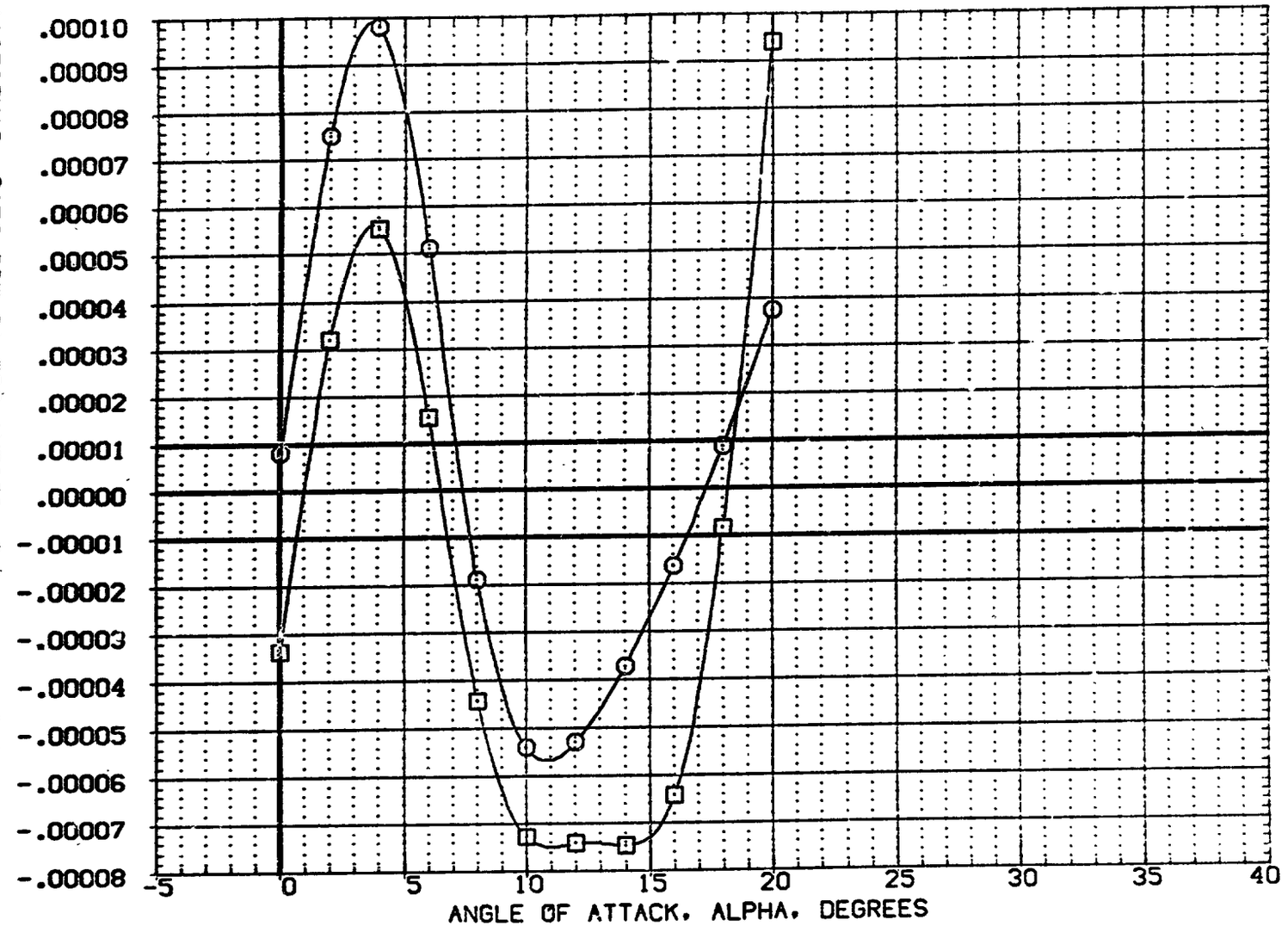
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM018)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN1	.000	187.000	3.000
(APM019)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN1	-5.000	187.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

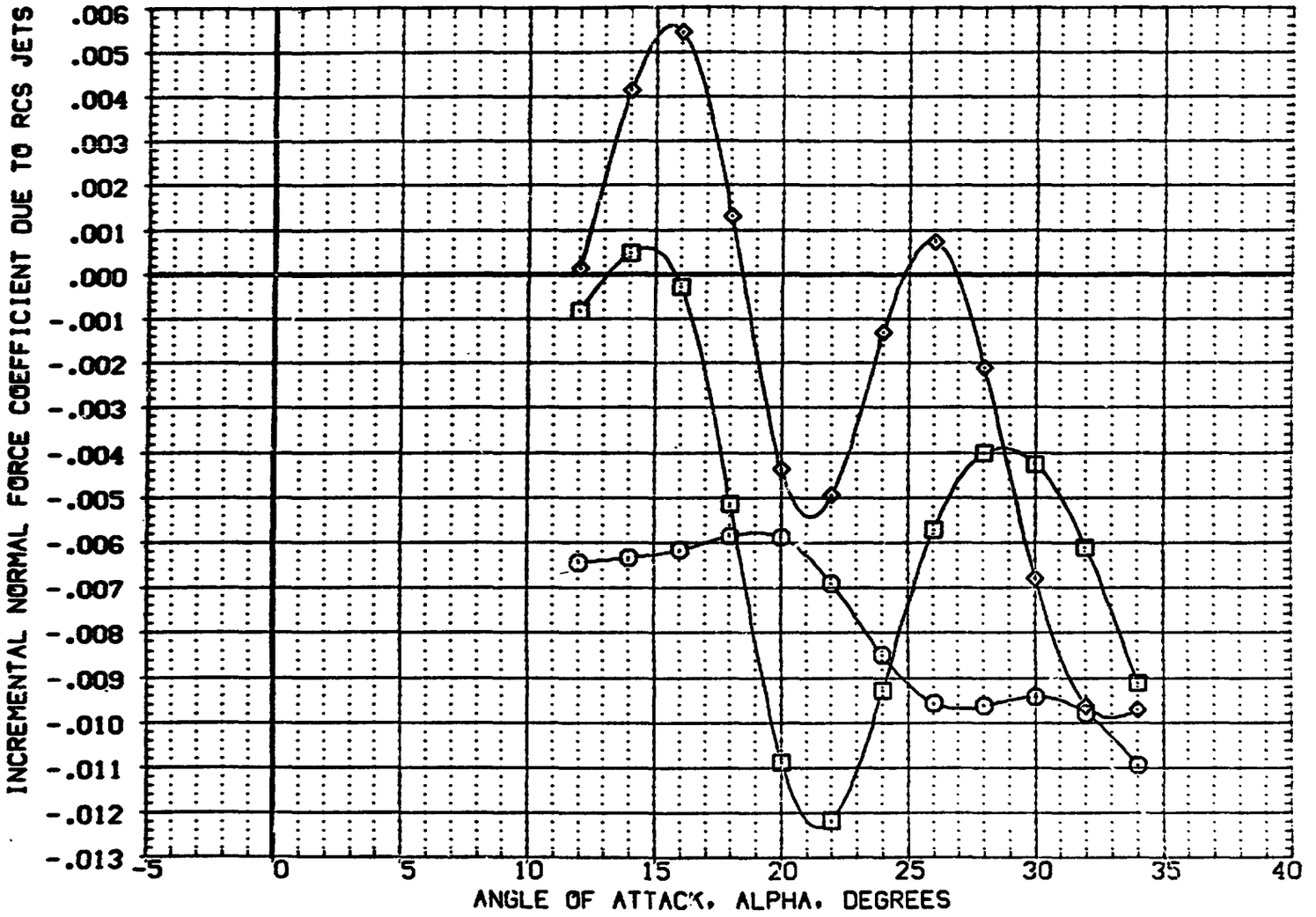


YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM030)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(APM032)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-2.500	310.000	1.000
(APM033)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	310.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



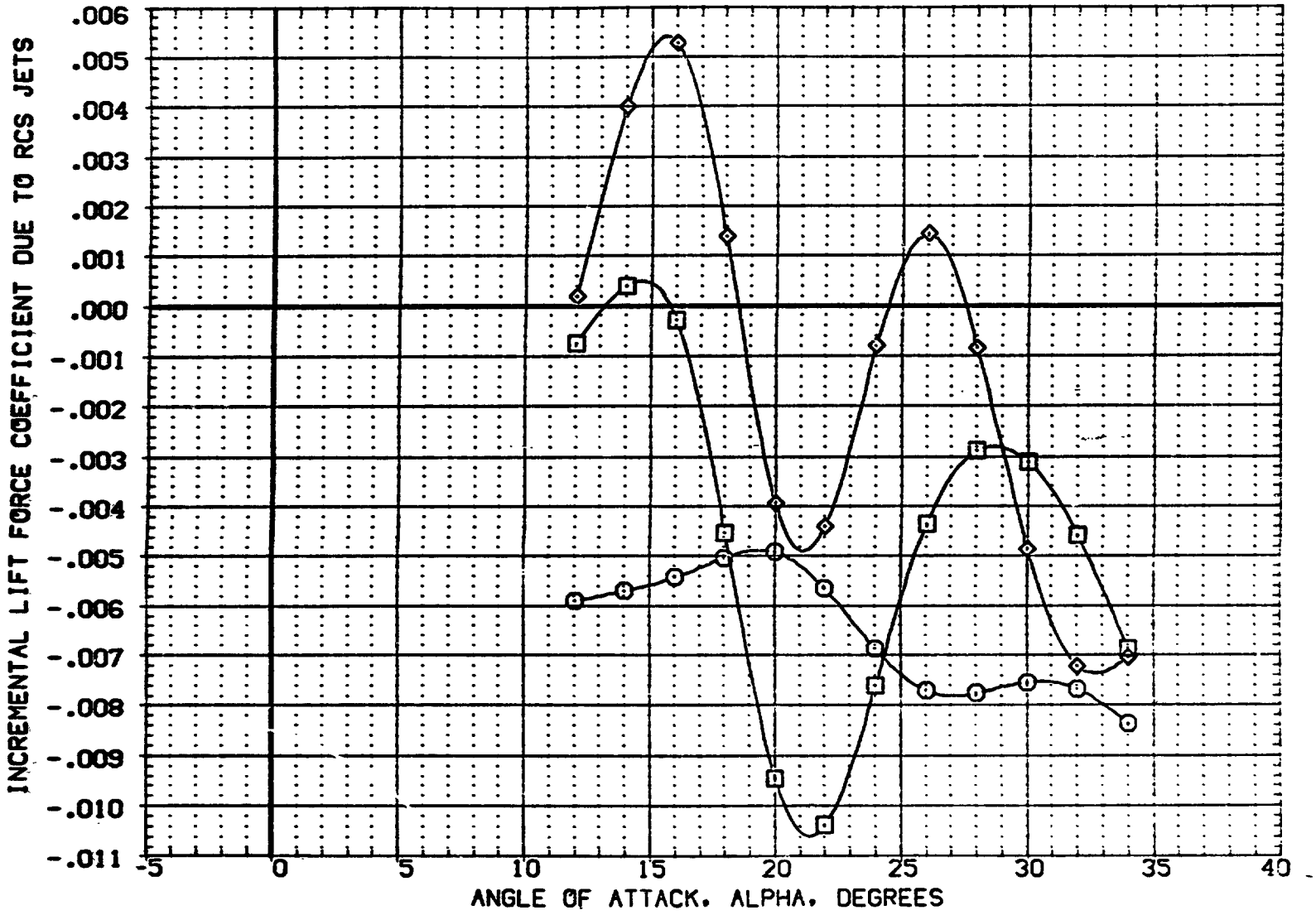
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM030)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(APM032)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-2.500	310.000	1.000
(APM033)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	310.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

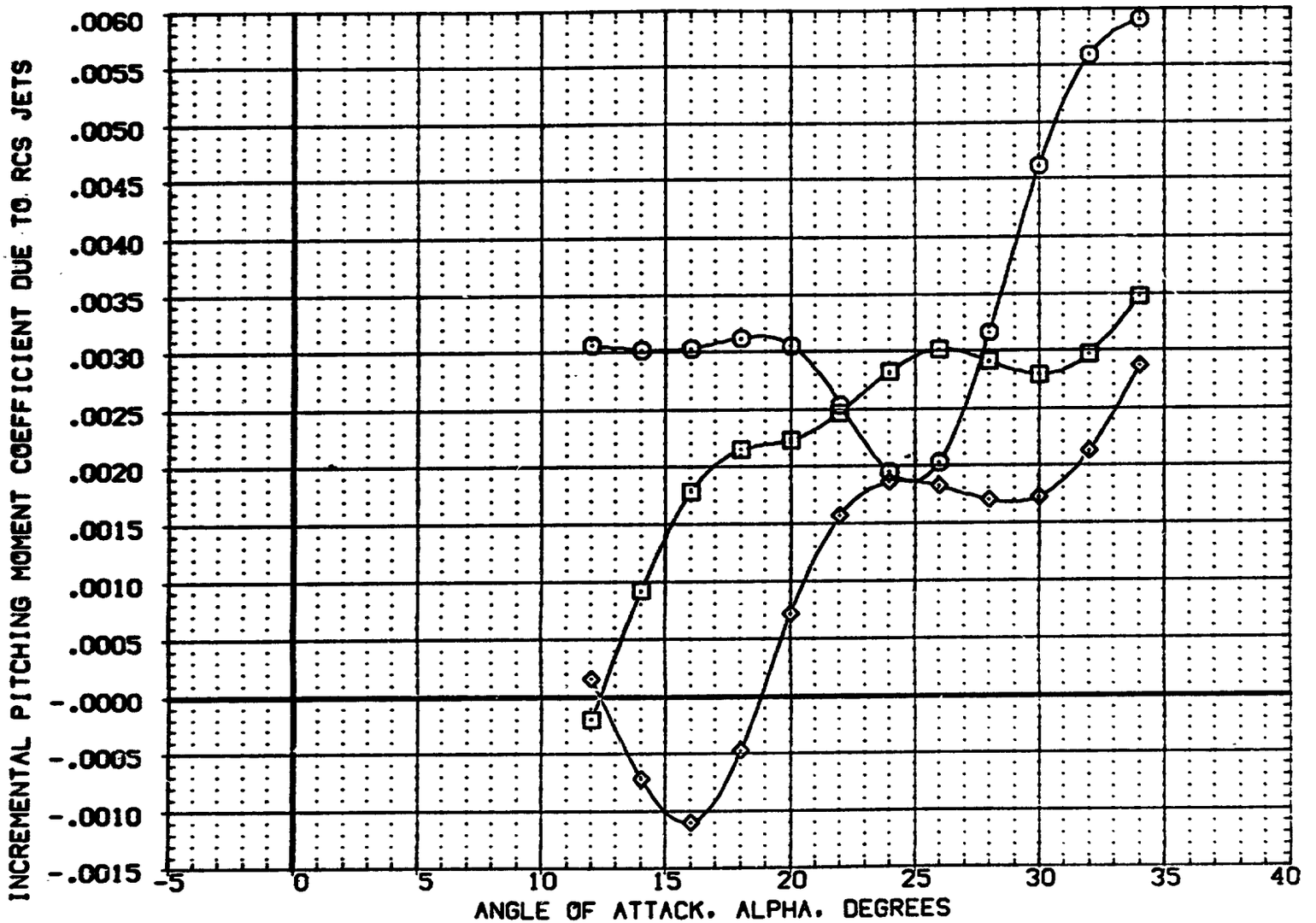


YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APH030)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	310.000	1.000
(APH032)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	-2.500	310.000	1.000
(APH033)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	-5.000	310.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



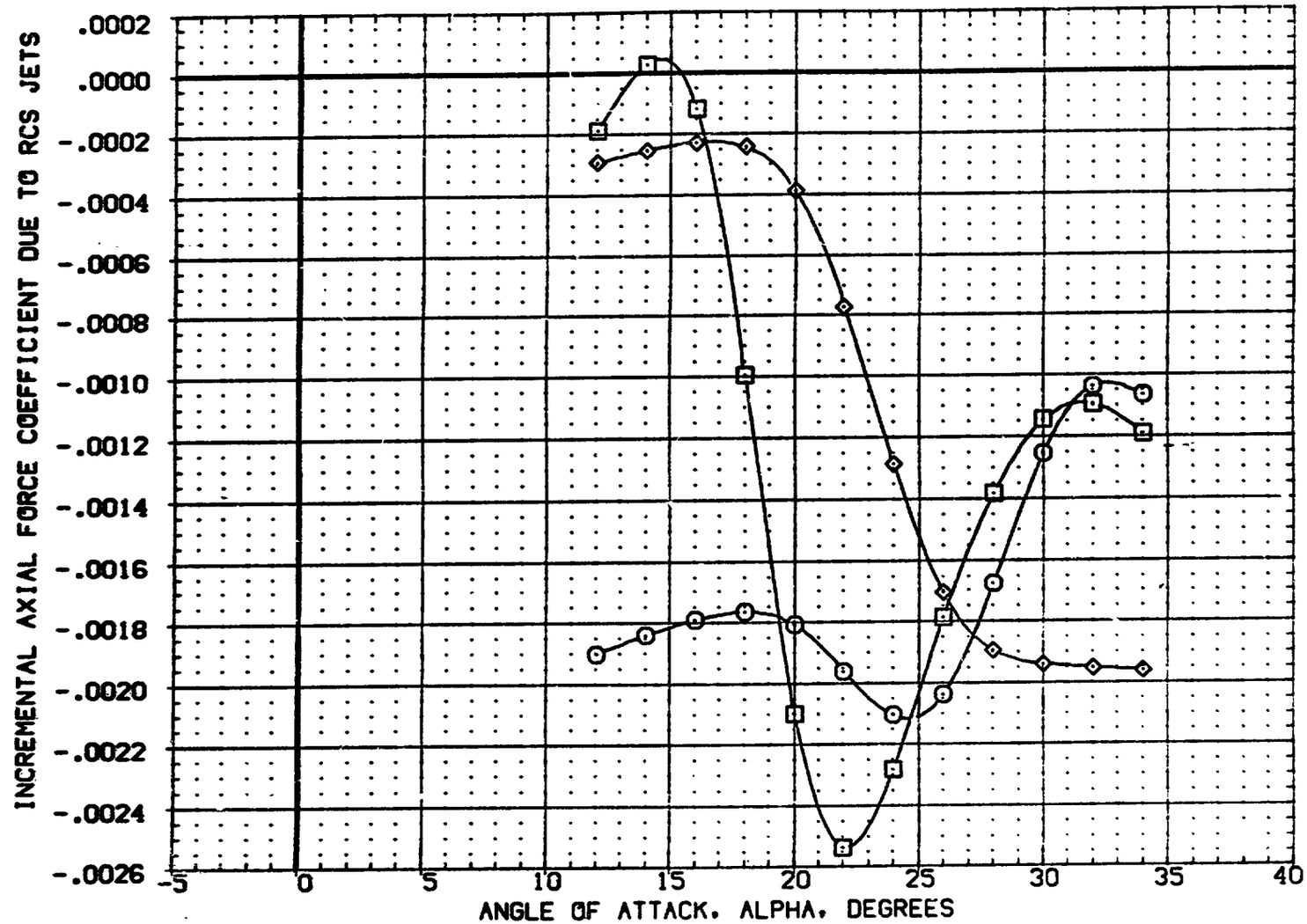
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = -4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM030) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	.000	310.000	1.000
(APM032) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	-2.500	310.000	1.000
(APM033) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN1	-5.000	310.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH030)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(APH032)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-2.500	310.000	1.000
(APH033)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	-5.000	310.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
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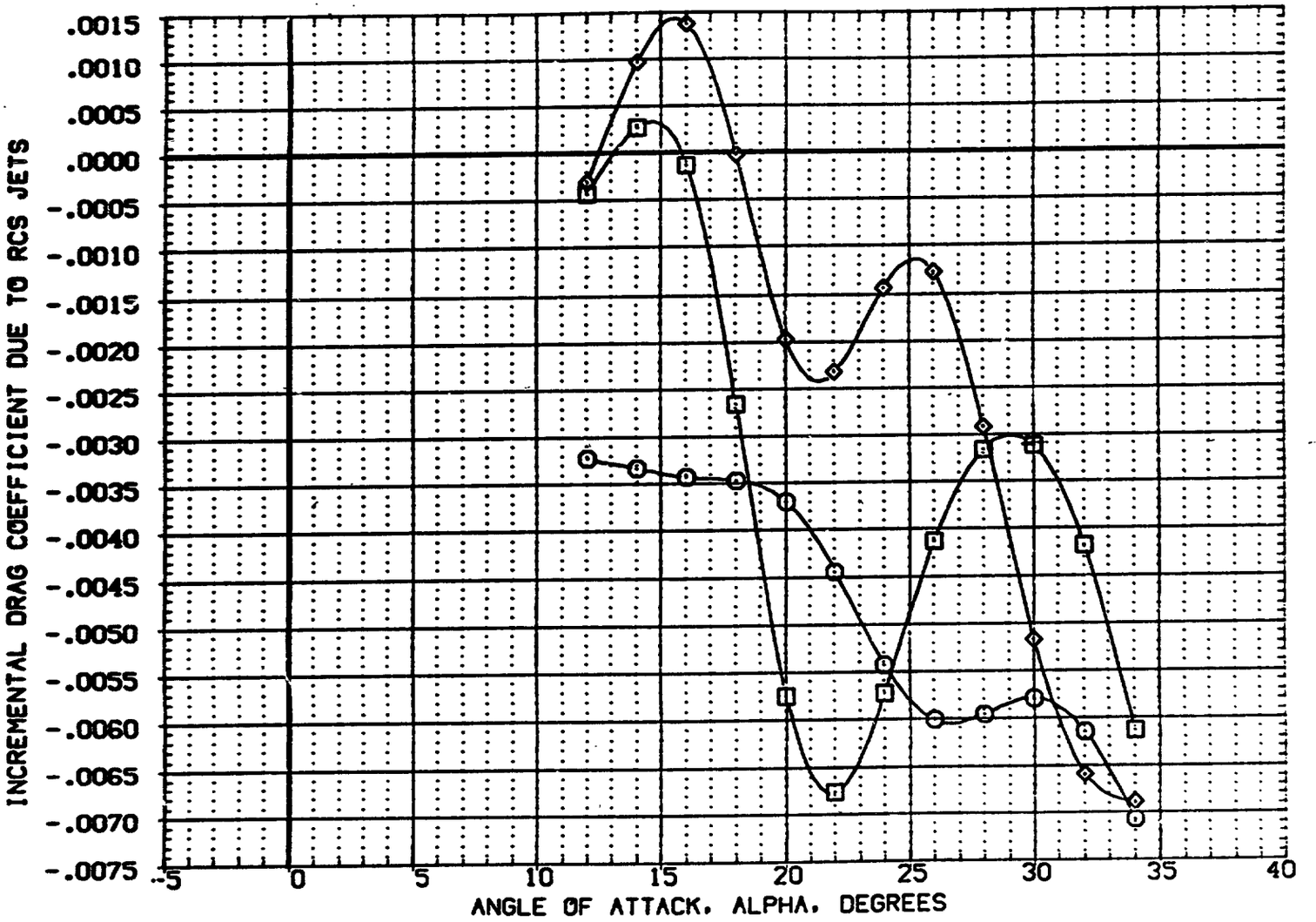
SCALE	.0150	



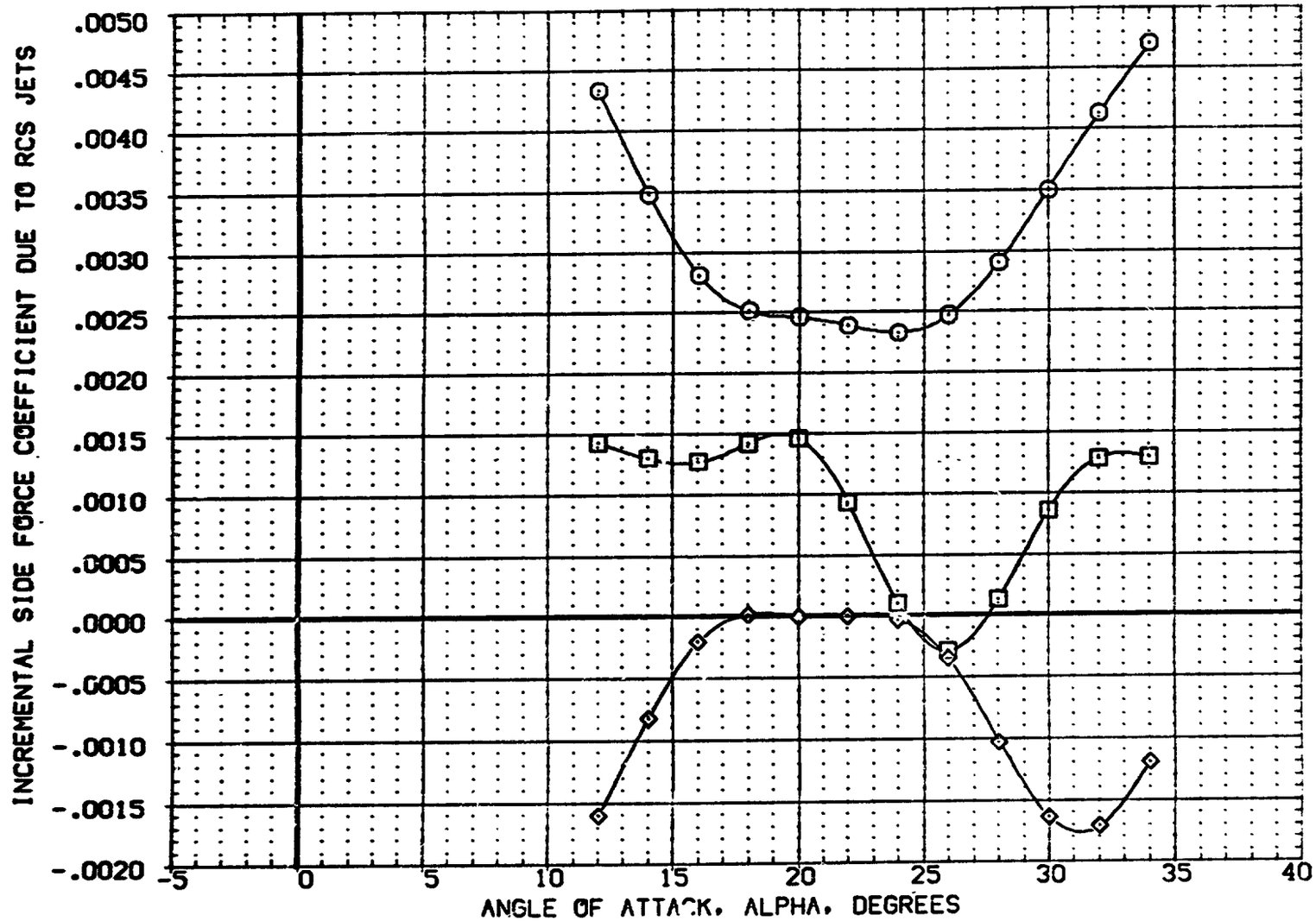
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM030)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	.000	310.000	1.000
(APM032)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	-2.500	310.000	1.000
(APM033)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.. BVTNI	-5.000	310.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



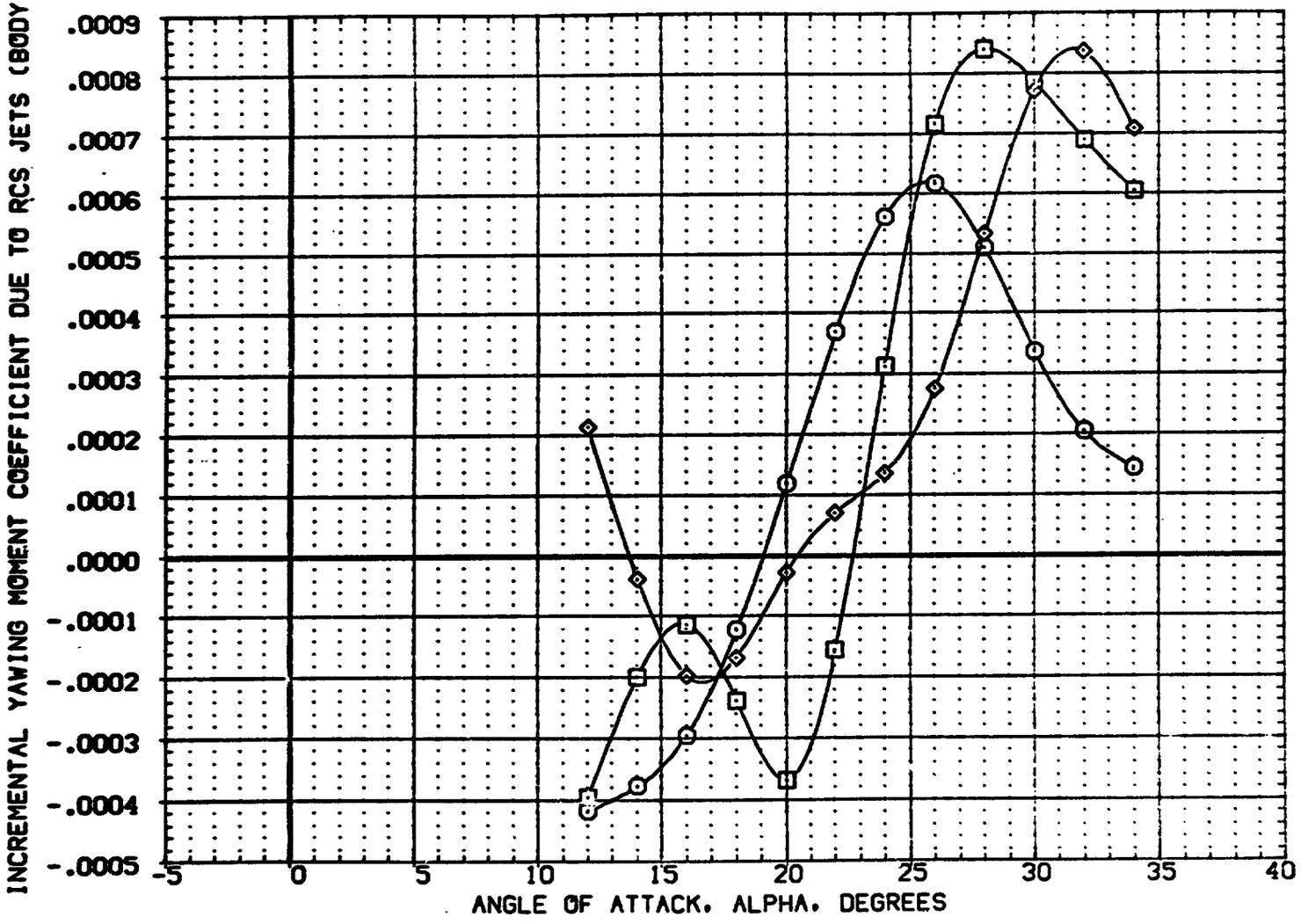
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH030)	○	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BVTNI	.000	310.000	1.000
(APH032)	□	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BVTNI	-2.500	310.000	1.000
(APH033)	◇	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BVTNI	-5.000	310.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

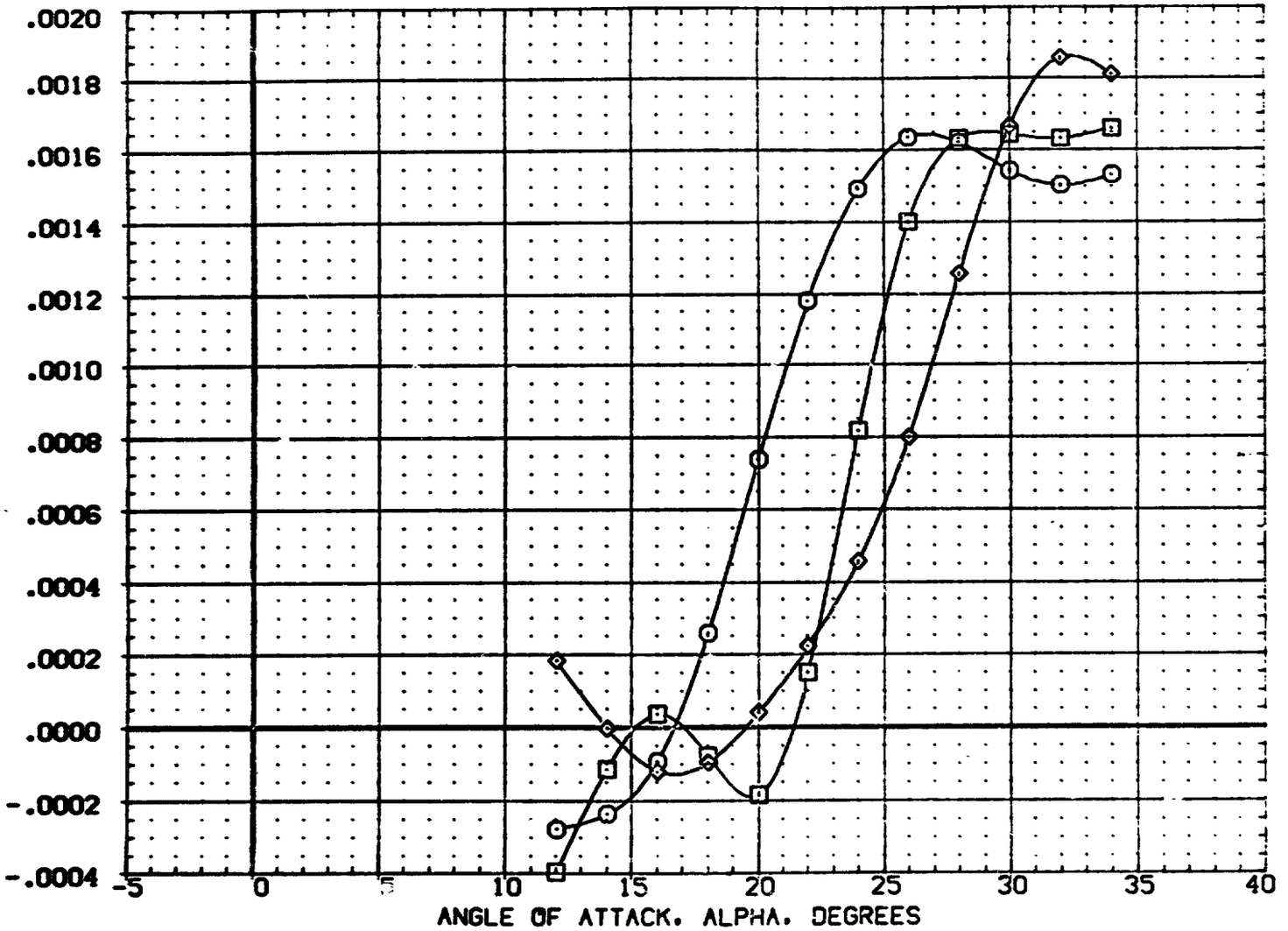


YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

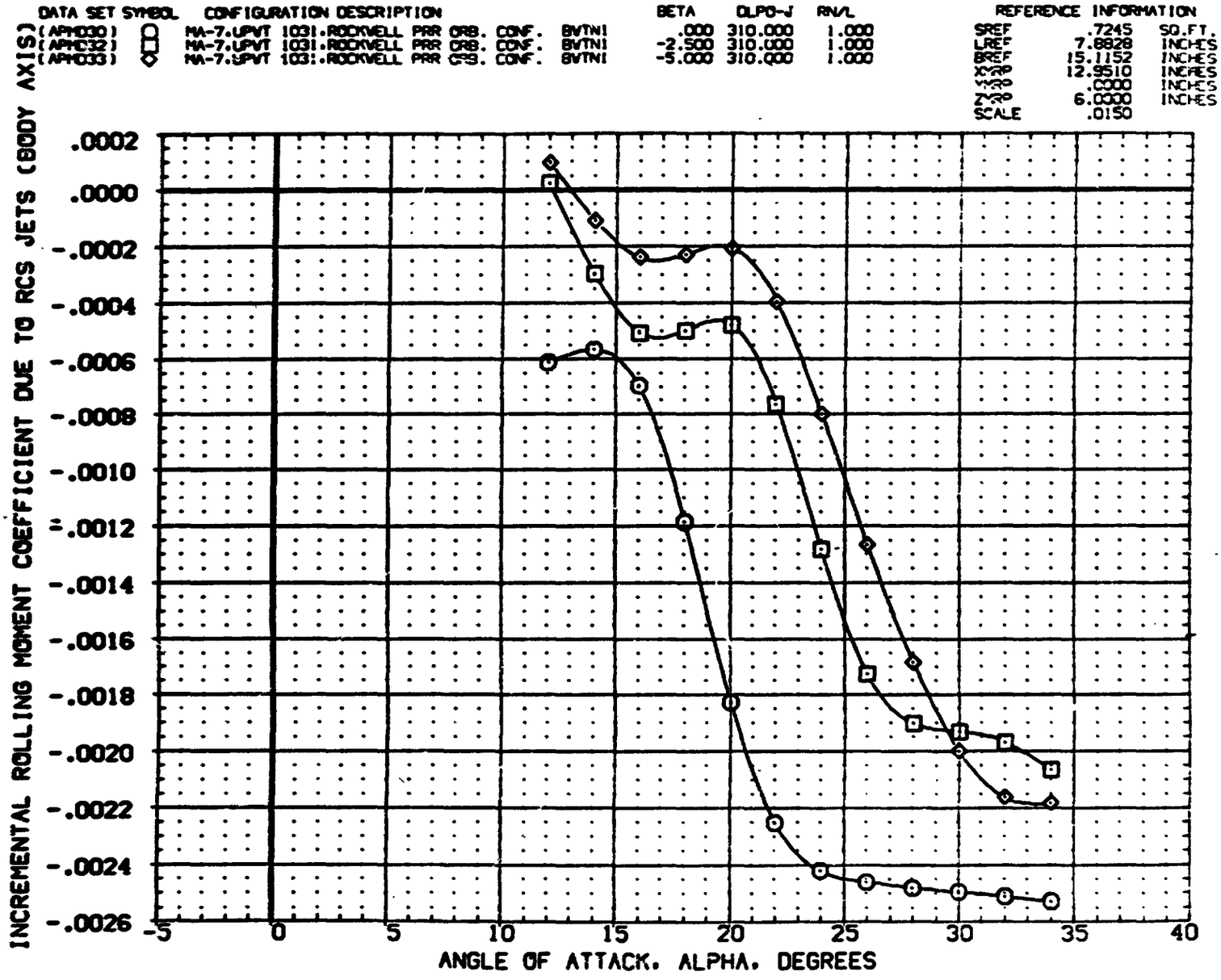
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM030) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	310.000	1.000
(APM032) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-2.500	310.000	1.000
(APM033) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	-5.000	310.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00



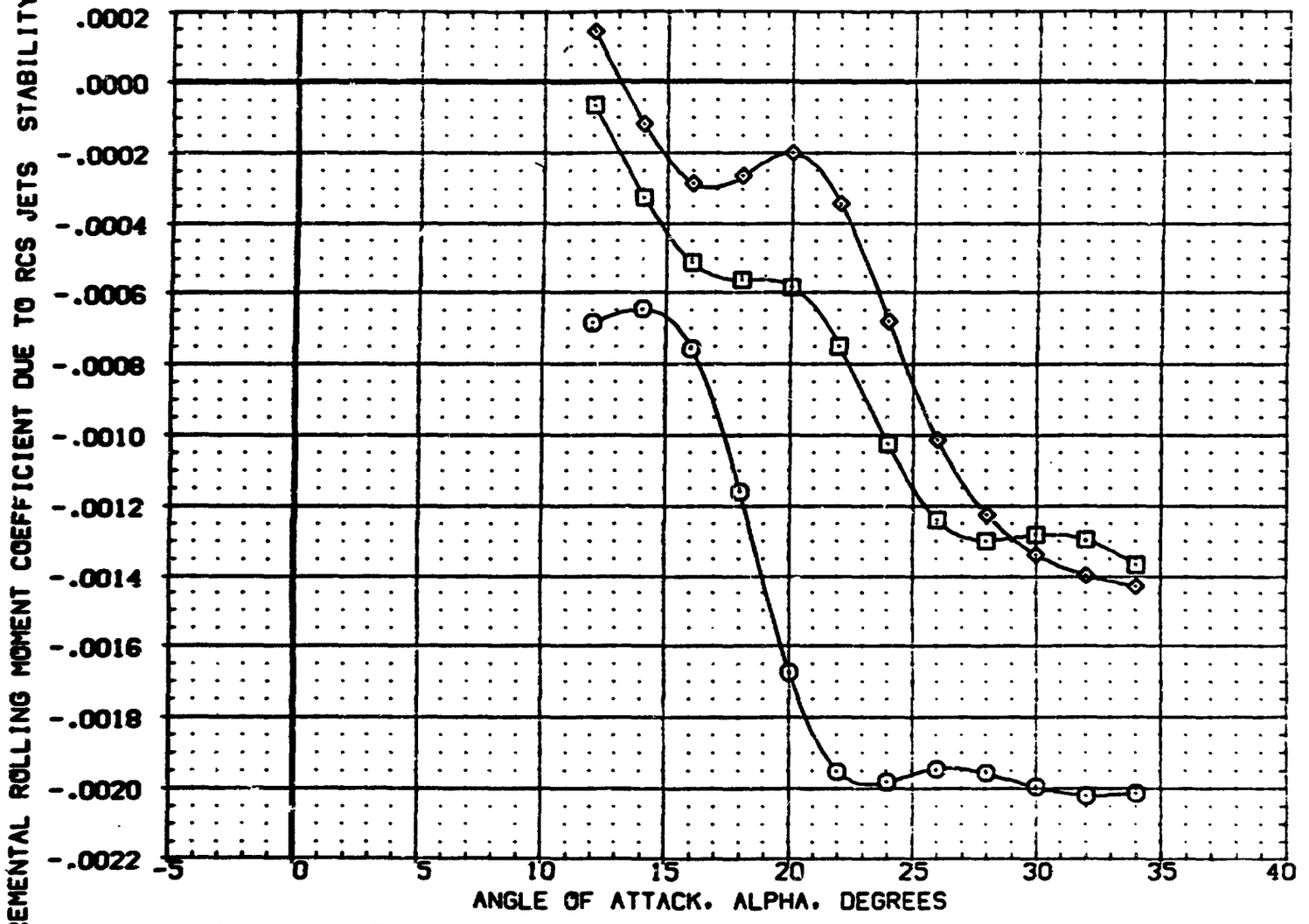
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM030)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	.000	310.000	1.000
(APM032)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	-2.500	310.000	1.000
(APM035)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTNI	-5.000	310.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

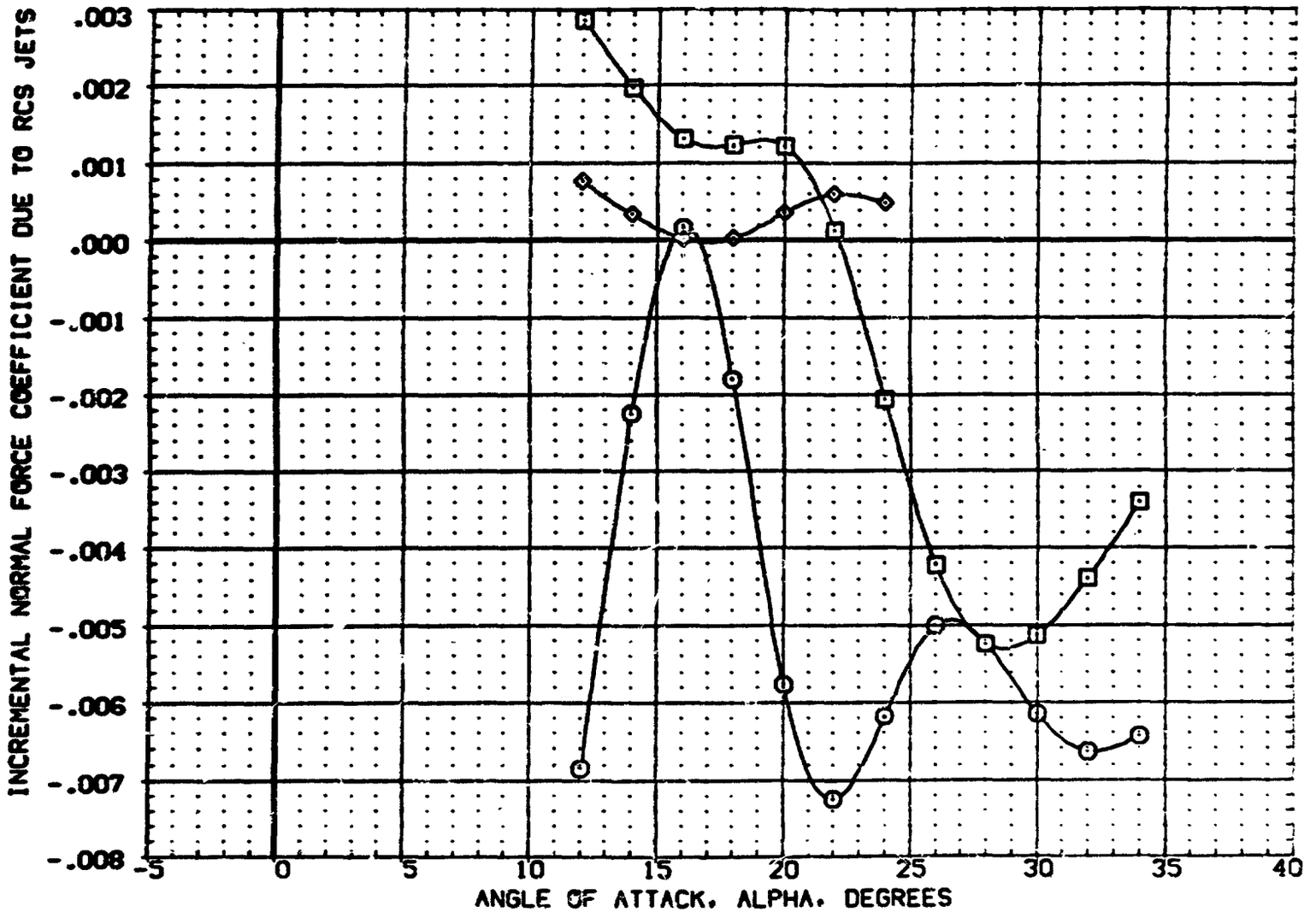


YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH026)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	35.000	1.000
(APH027)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	100.000	3.000
(APH028)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	170.000	5.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

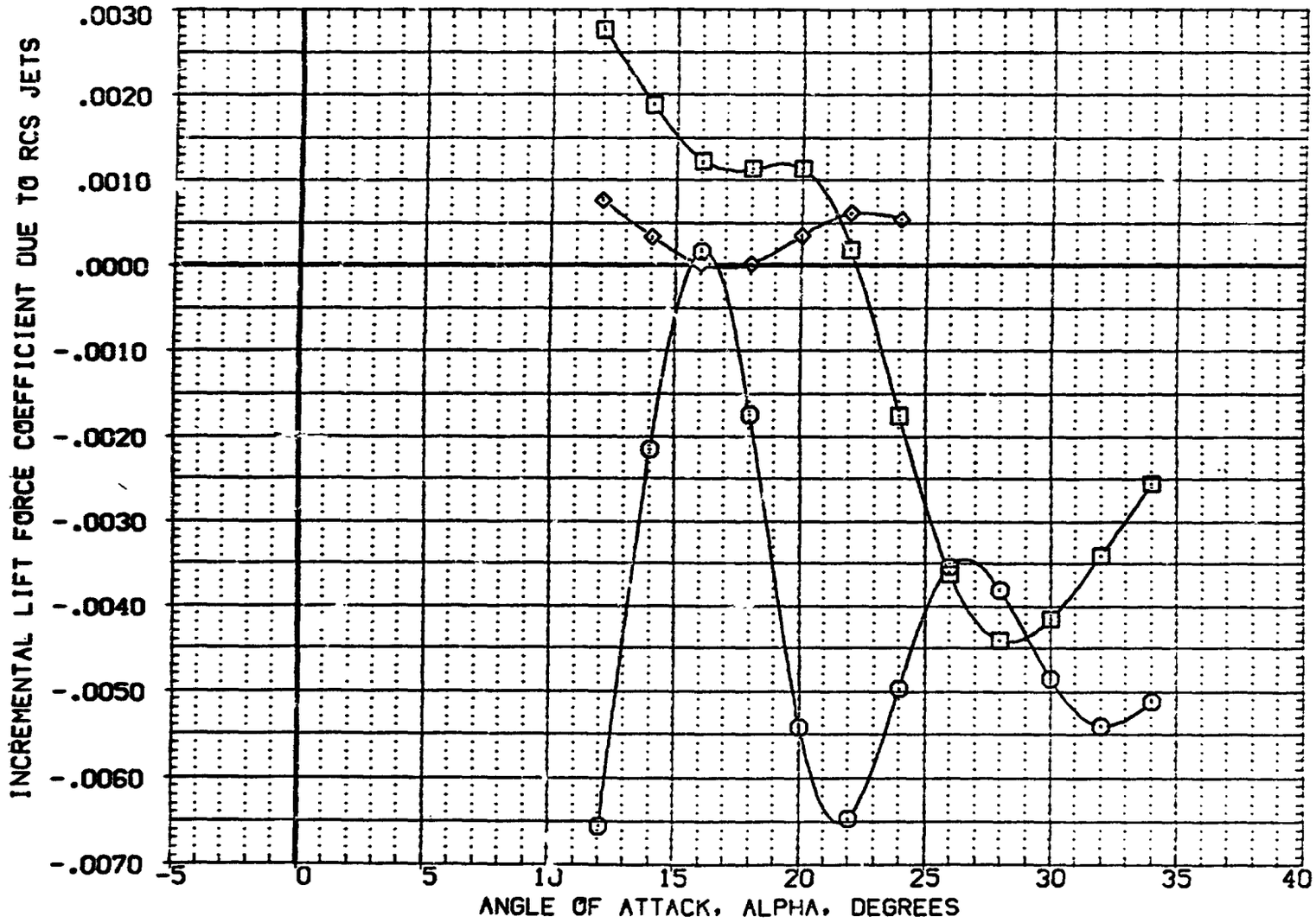


YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM026)	○	MA-7.UP. 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	35.000	1.000
(APM027)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	100.000	3.000
(APM328)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	170.000	5.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



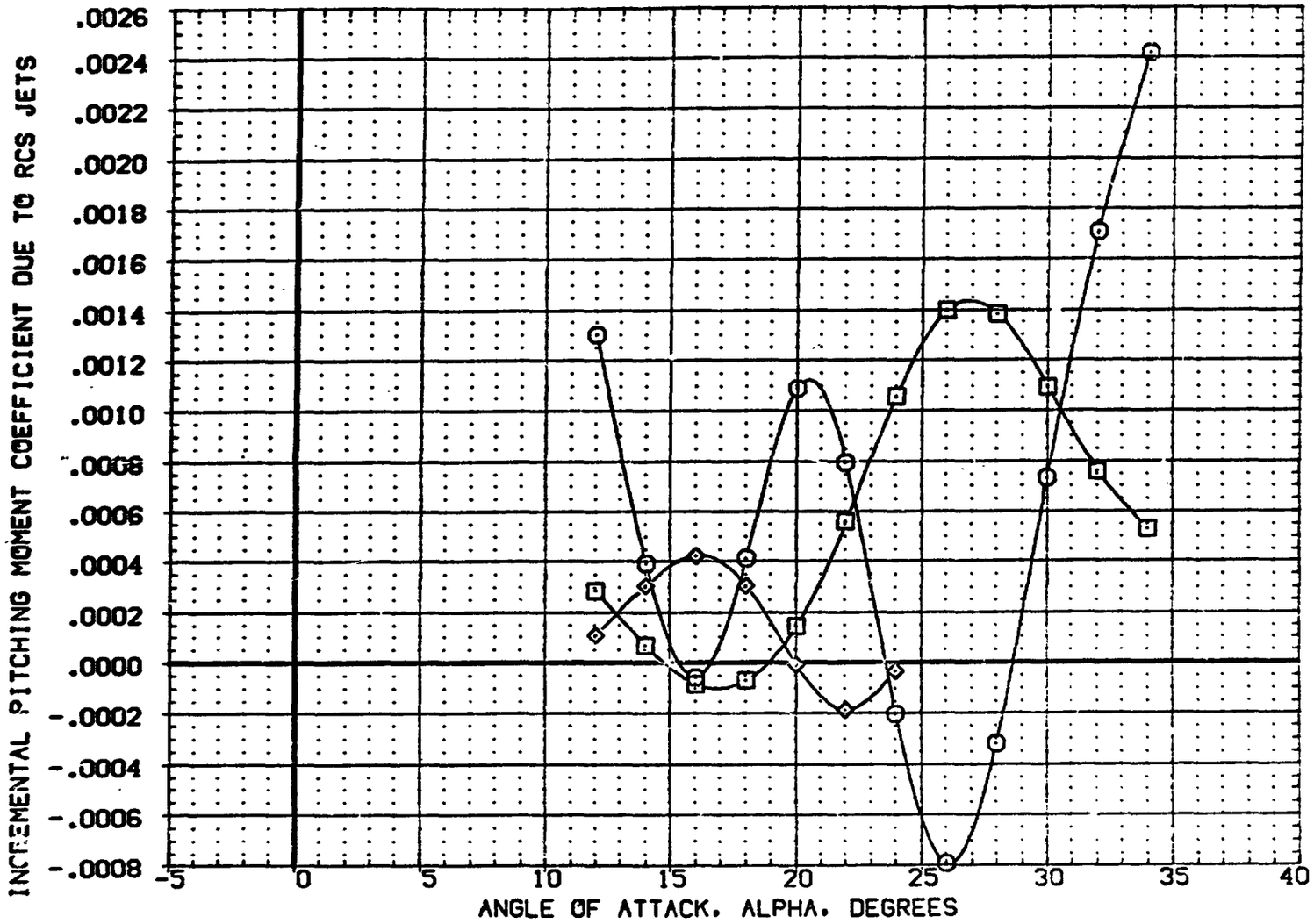
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM026)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	35.000	1.000
(APM027)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	100.000	3.000
(APM028)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTNI	.000	170.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



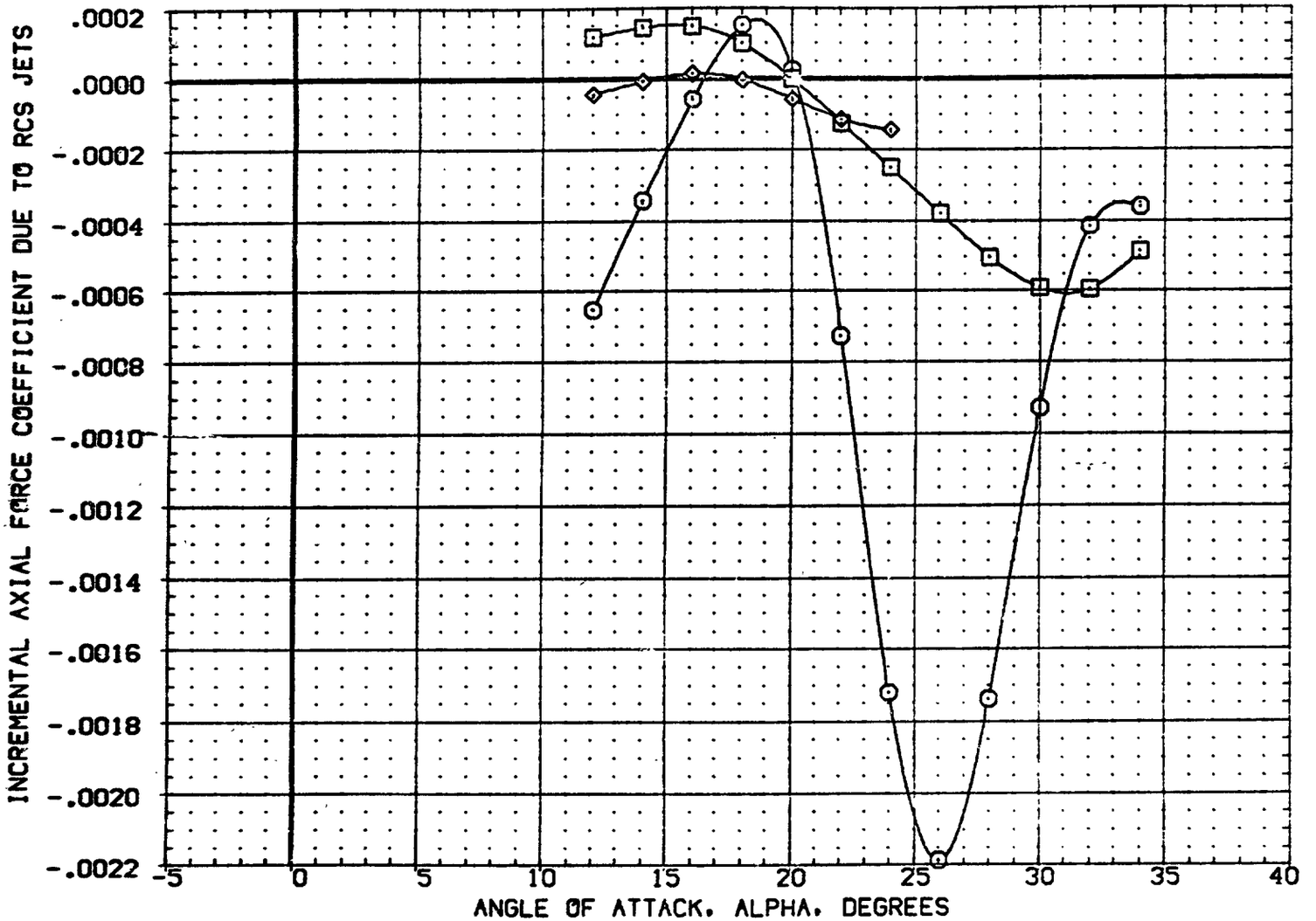
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM026)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTNI	.000	35.000	1.000
(APM027)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTNI	.000	100.000	3.000
(APM028)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTNI	.000	170.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



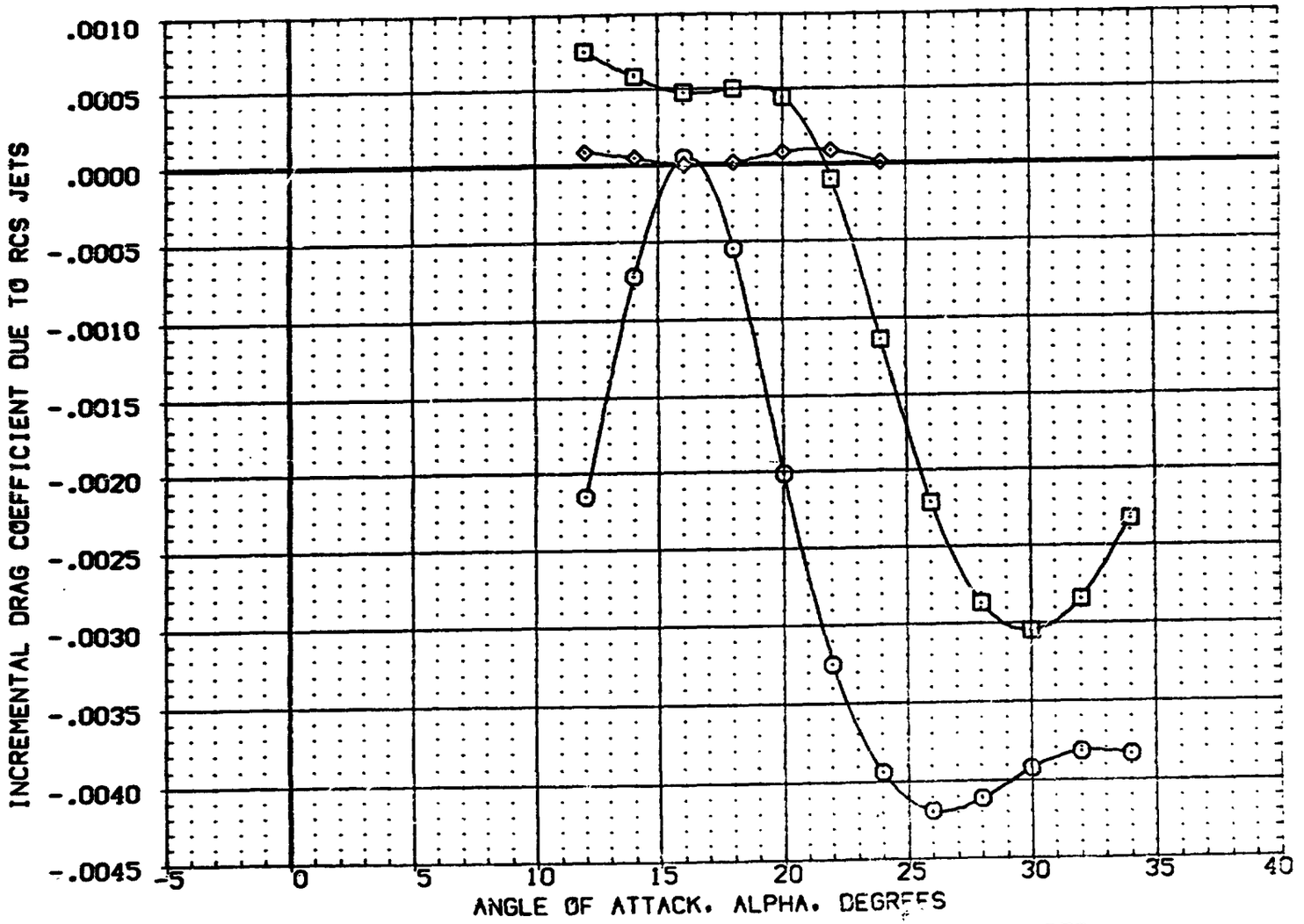
YAW-JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM026) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	35.000	1.000
(APM027) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	100.000	3.000
(APM028) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	170.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



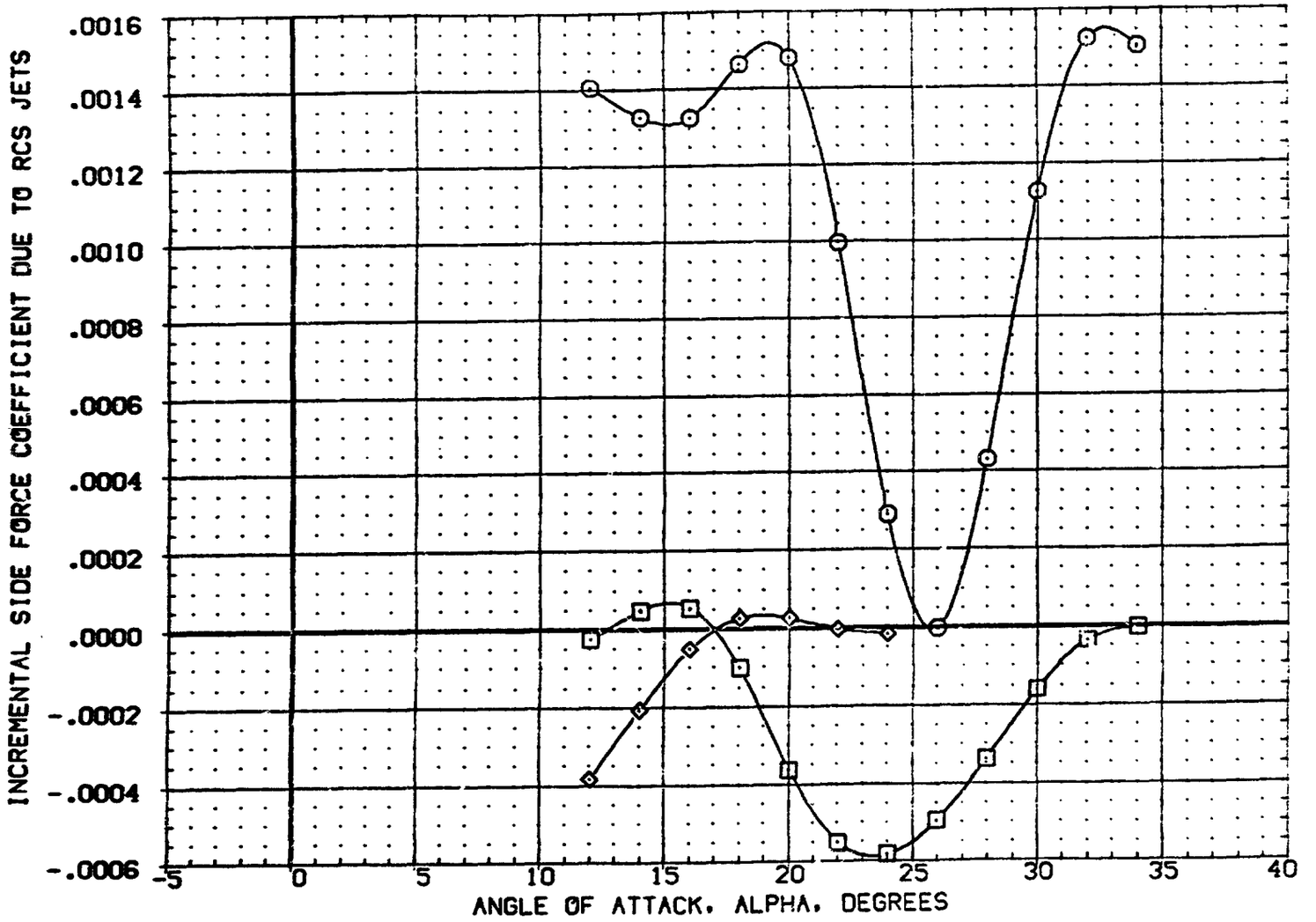
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD26) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	35.000	1.000
(APMD27) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	100.000	3.000
(APMD28) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	170.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



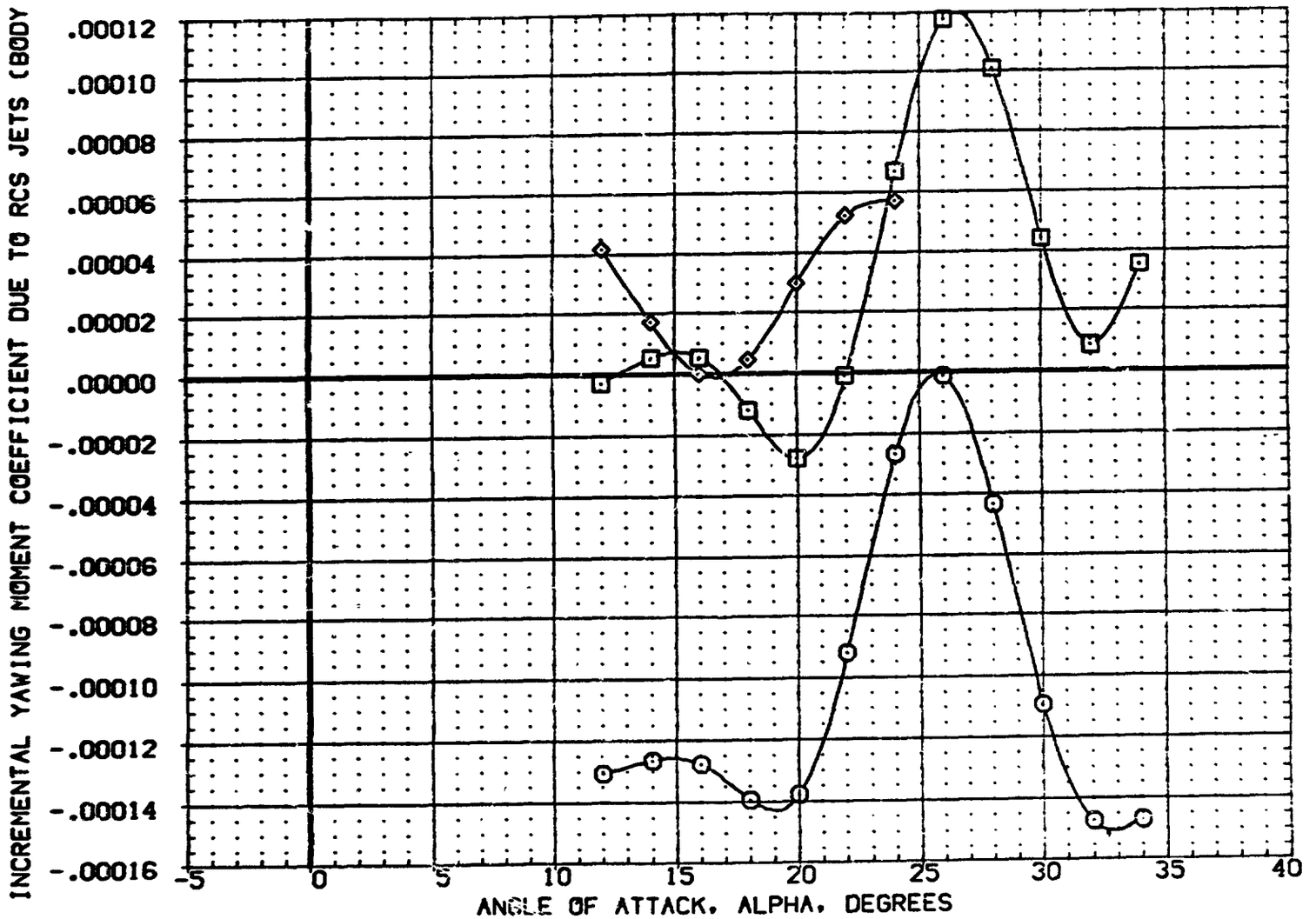
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLP0-J	RN/L
(APM026) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	35.000	1.000
(APM027) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	100.000	3.000
(APM028) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	170.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

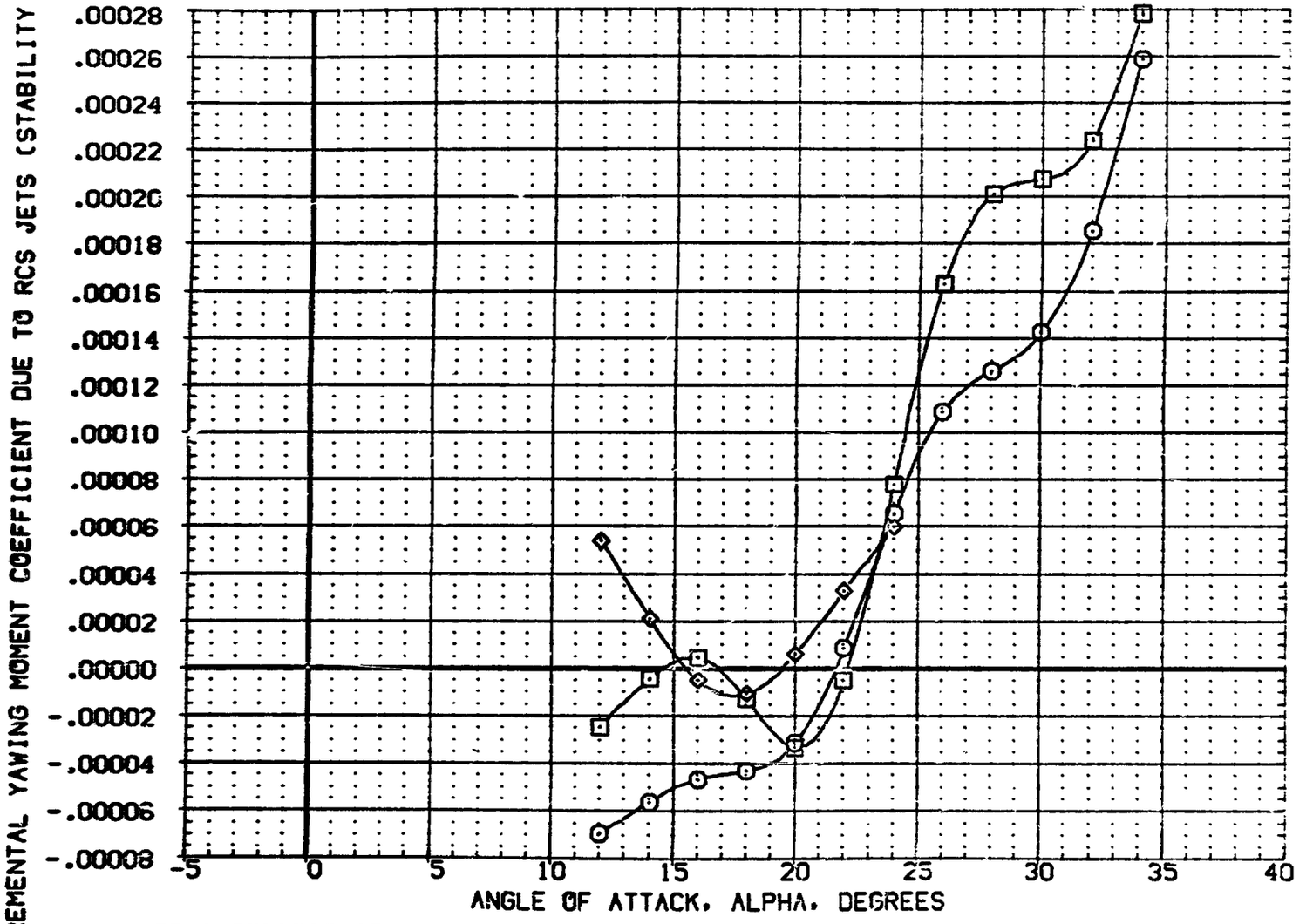


YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

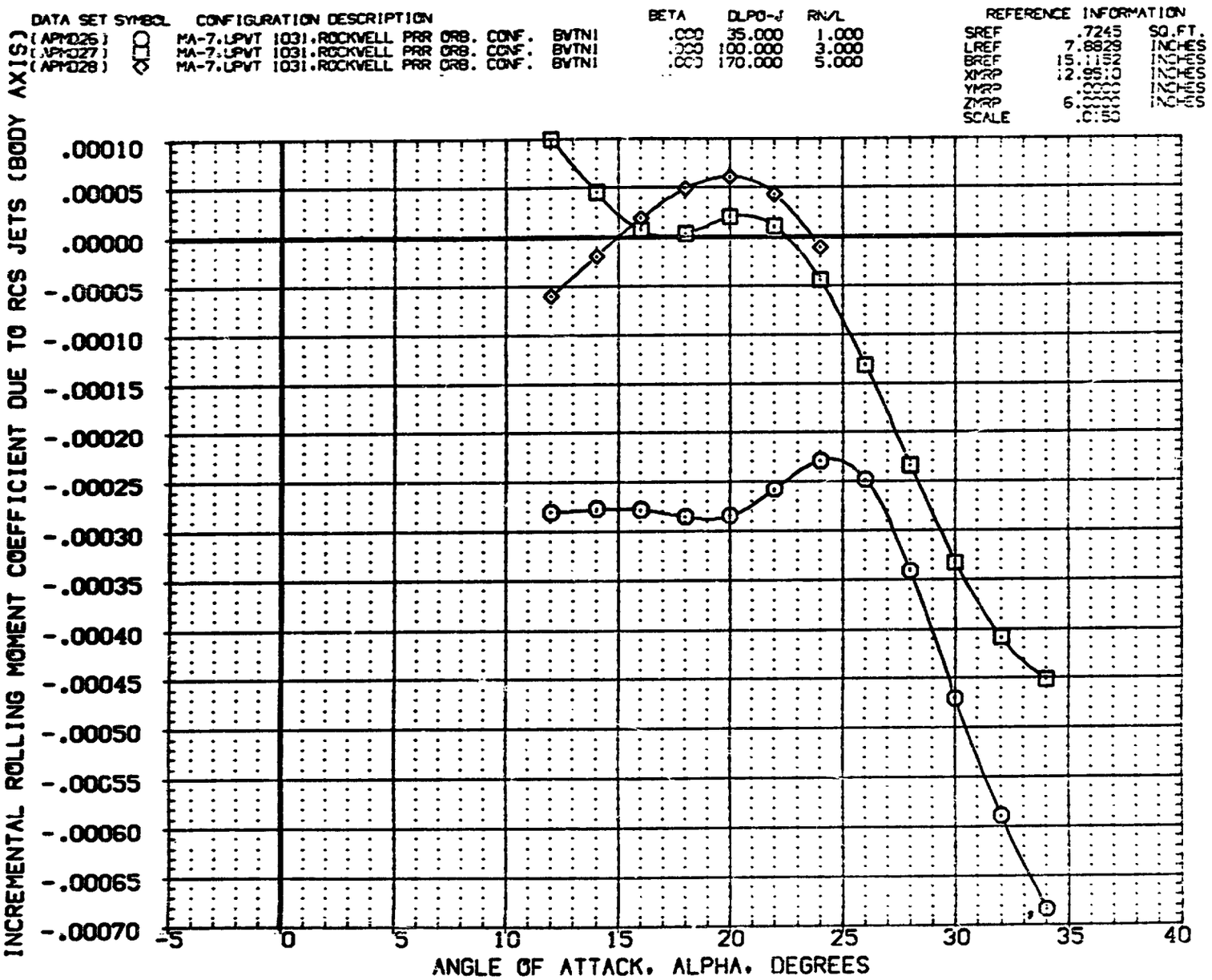
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM026)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	35.000	1.000
(APM027)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	100.000	3.000
(APM028)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN1	.000	170.000	5.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	12.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00



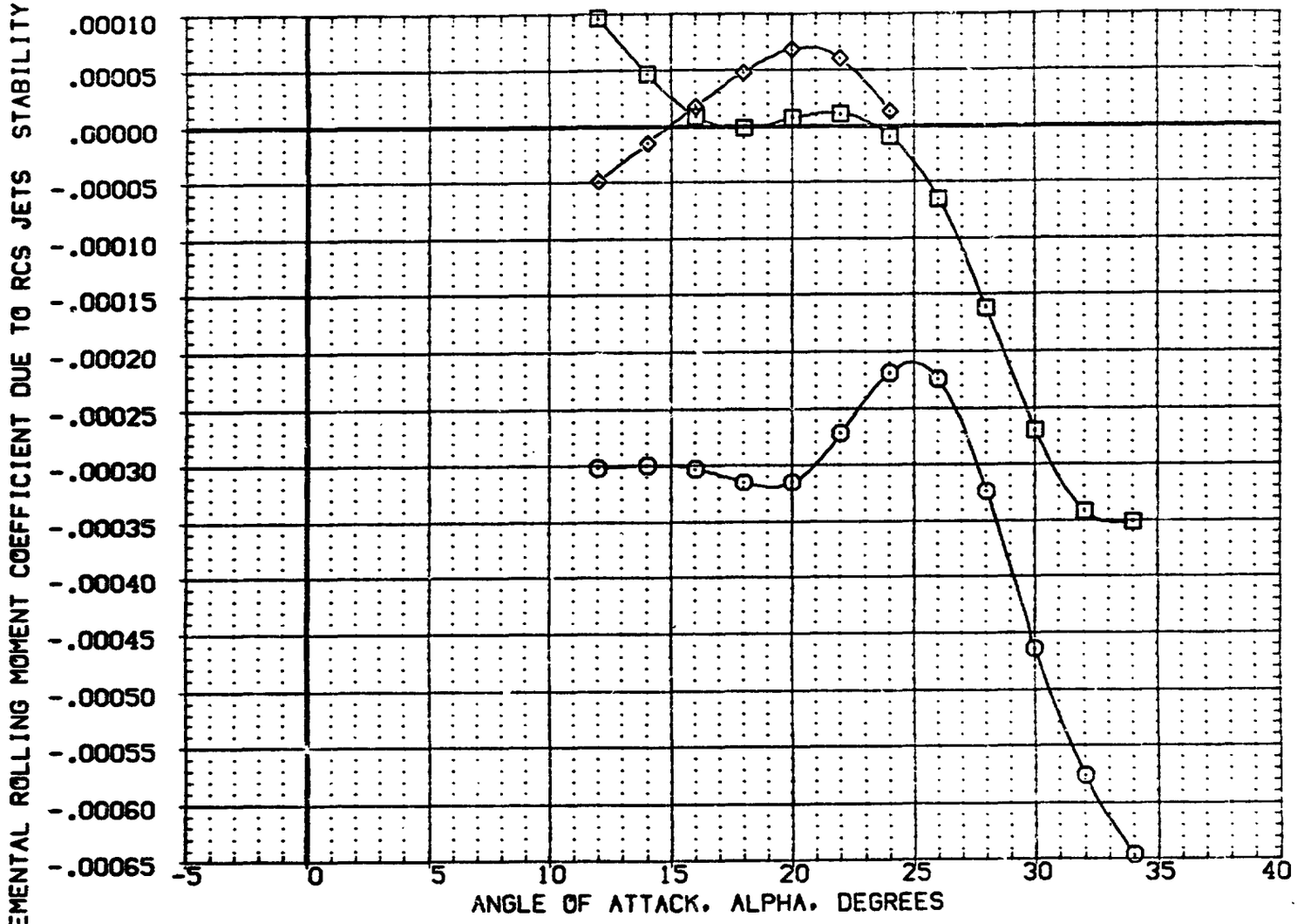
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD26) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BWTN1	.000	35.000	1.000
(APMD27) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BWTN1	.000	100.000	3.000
(APMD28) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BWTN1	.000	170.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



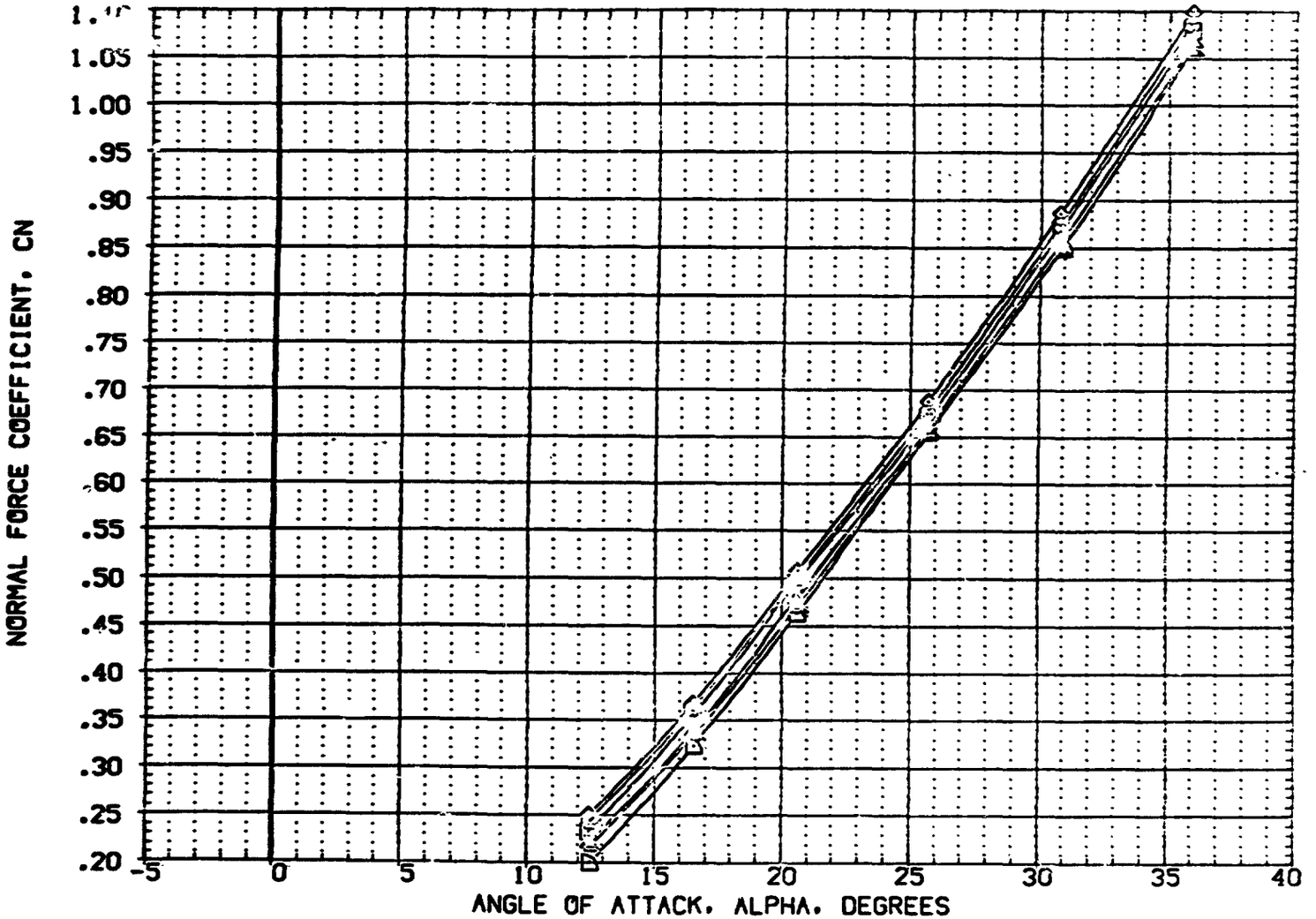
YAW JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF REYNOLDS NUMBER

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM040)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	1.000
(CPM045)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	37.000	1.000
(CPM046)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	99.000	1.000
(CPM049)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	199.000	1.000
(CPM050)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	328.000	1.000
(CPM054)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



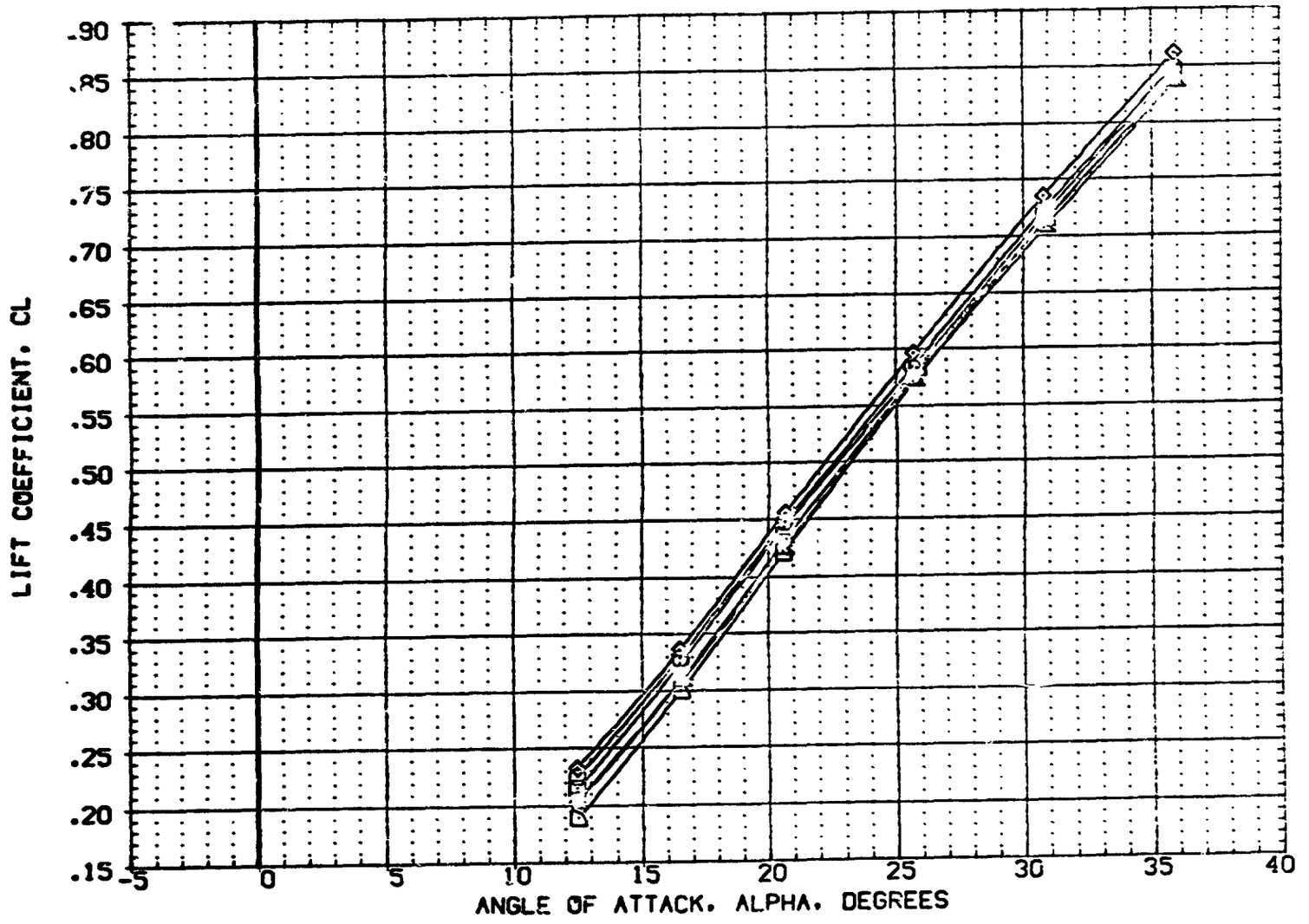
EFFECT OF ROLL JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM040)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	.000	1.000
(CPM045)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	37.000	1.000
(CPM046)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	99.000	1.000
(CPM049)	▽	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	198.000	1.000
(CPM050)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	328.000	1.000
(CPM054)	⊳	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

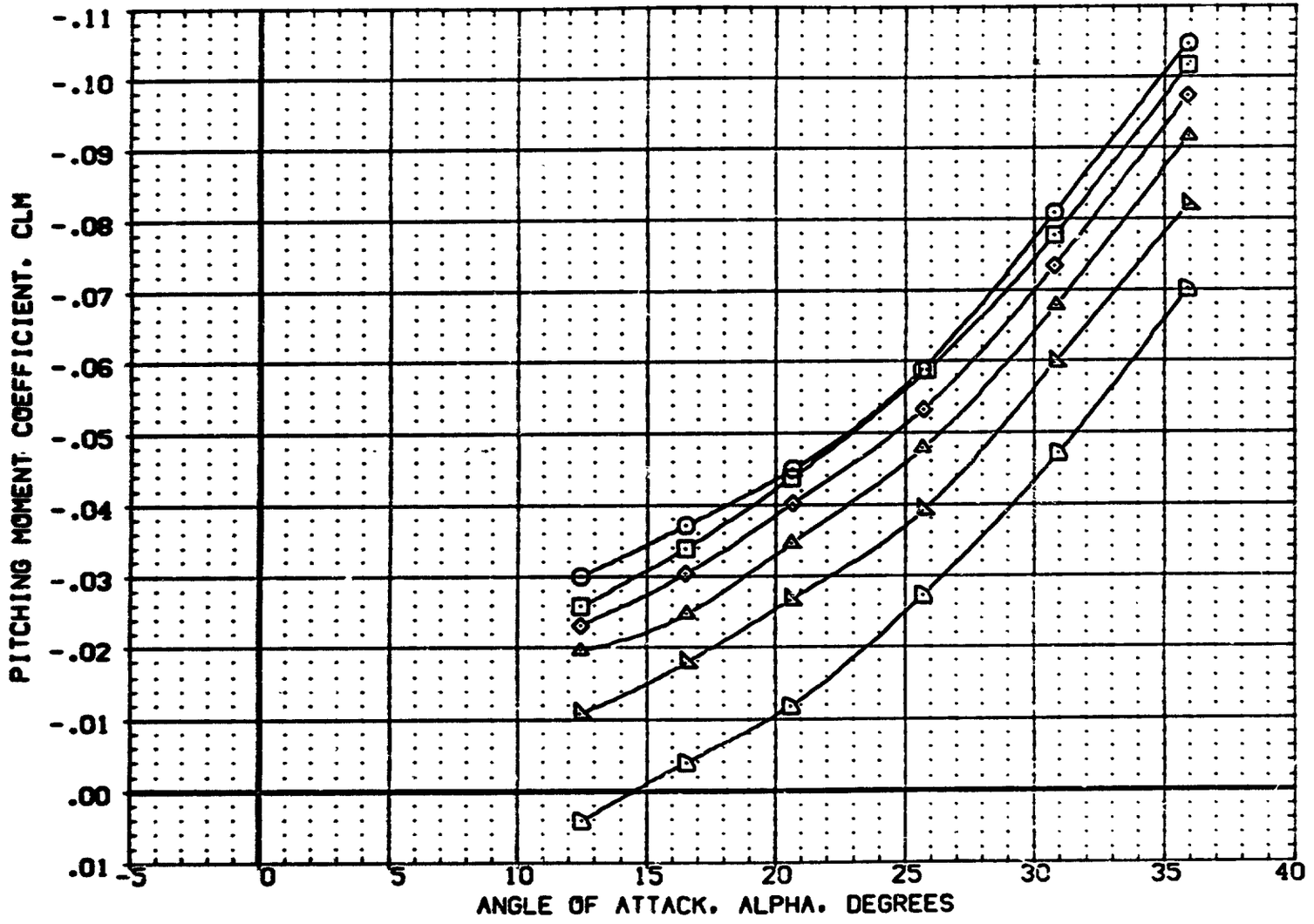


EFFECT OF ROLL JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM040)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	1.000
(CPM045)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	37.000	1.000
(CPM046)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	99.000	1.000
(CPM049)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	199.000	1.000
(CPM050)	◁	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	328.000	1.000
(CPM054)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

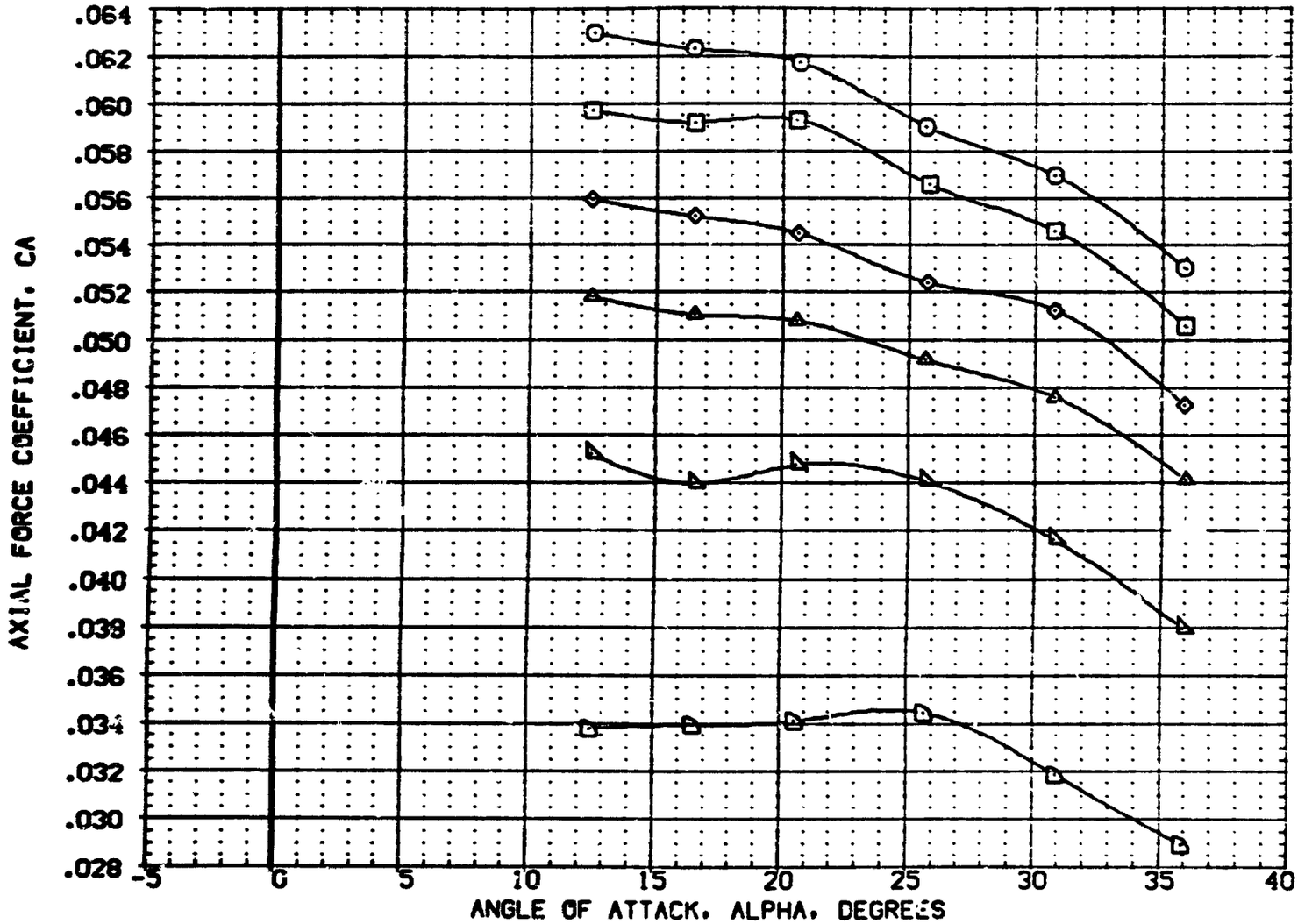


EFFECT OF ROLL JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(3PM043)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	.000	1.000
(CPM045)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	37.000	1.000
(CPM046)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	99.000	1.000
(CPM049)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	199.000	1.000
(CPM050)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	328.000	1.000
(CPM054)	▷	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

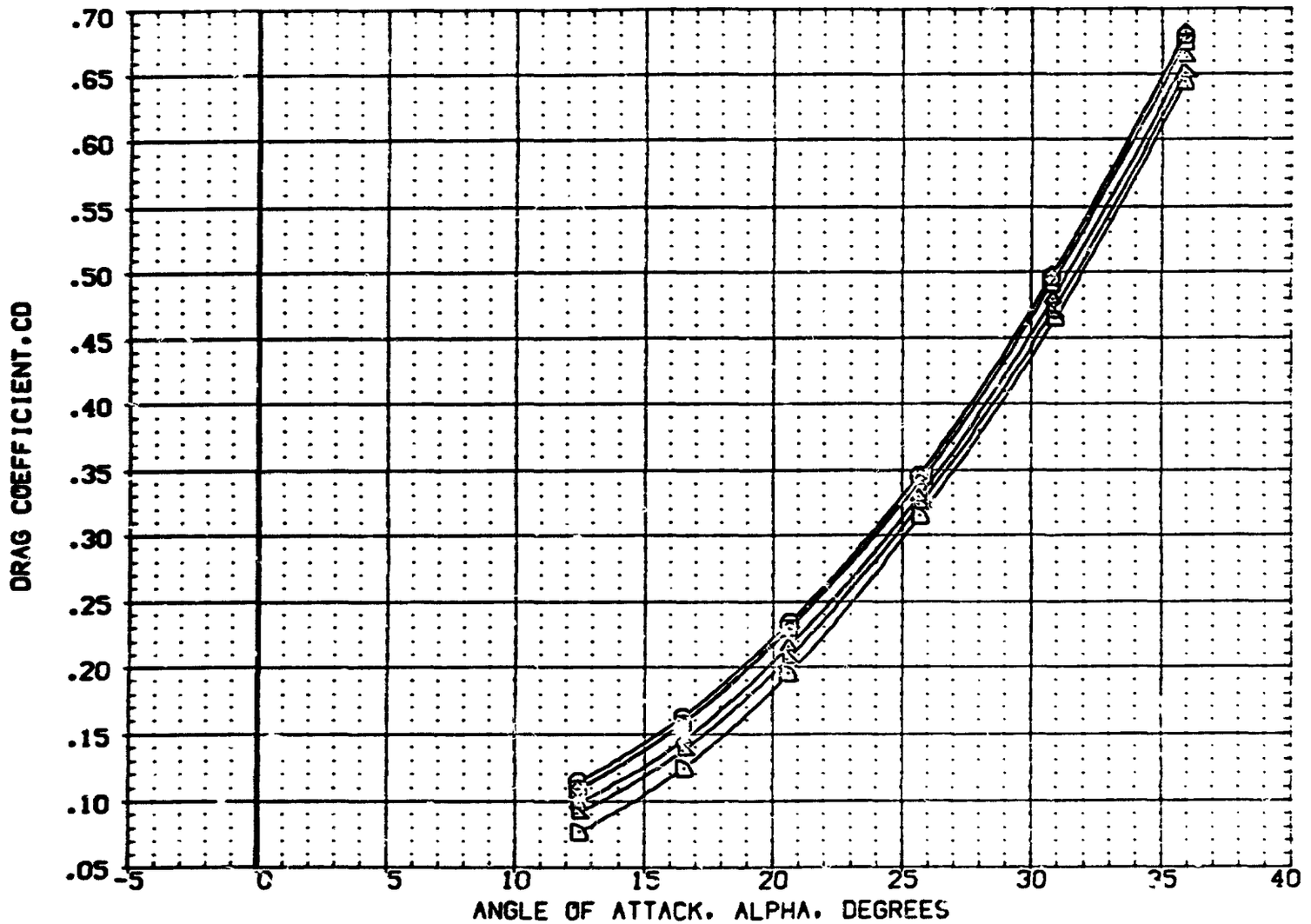


EFFECT OF ROLL JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM040)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	1.000
(CPM045)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	37.000	1.000
(CPM046)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	99.000	1.000
(CPM049)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	199.000	1.000
(CPM050)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	328.000	1.000
(CPM054)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

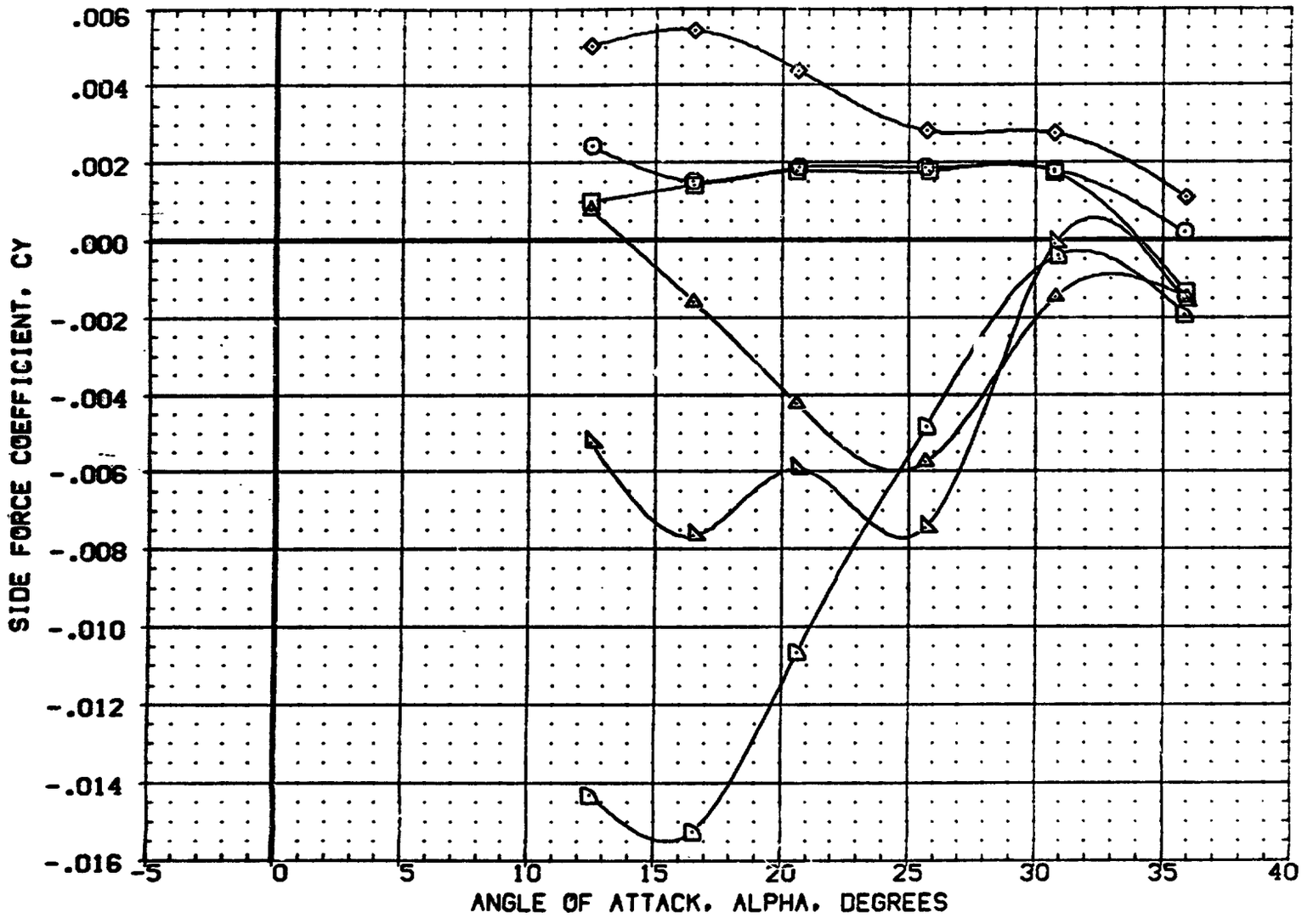


EFFECT OF ROLL JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM040)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	1.000
(CPM045)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	37.000	1.000
(CPM046)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	99.000	1.000
(CPM049)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	199.000	1.000
(CPM050)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	328.000	1.000
(CPM054)	D	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

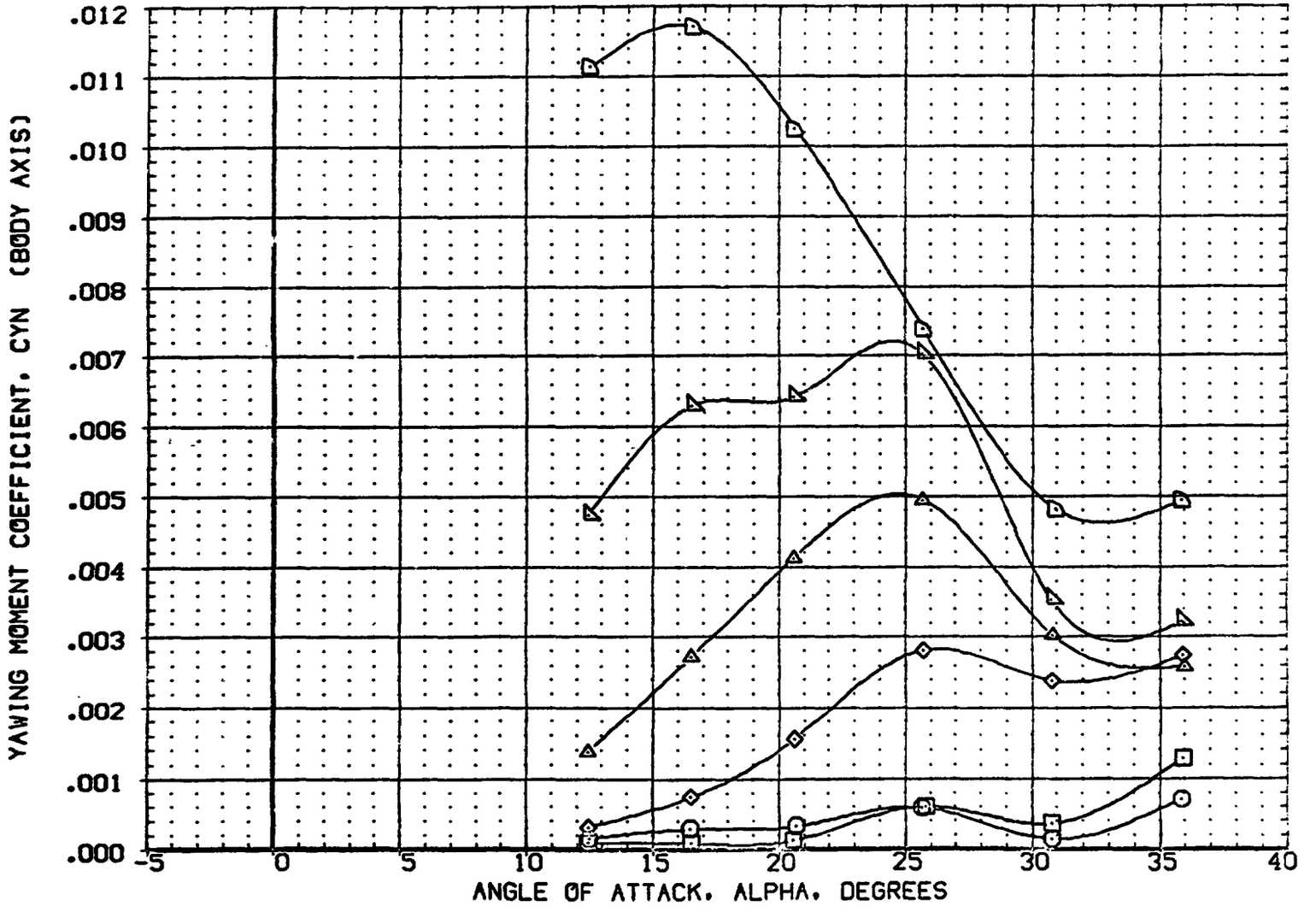


EFFECT OF ROLL JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM040)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	.000	1.000
(CPM045)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	37.000	1.000
(CPM046)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	99.000	1.000
(CPM048)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	199.000	1.000
(CPM050)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	328.000	1.000
(CPM054)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



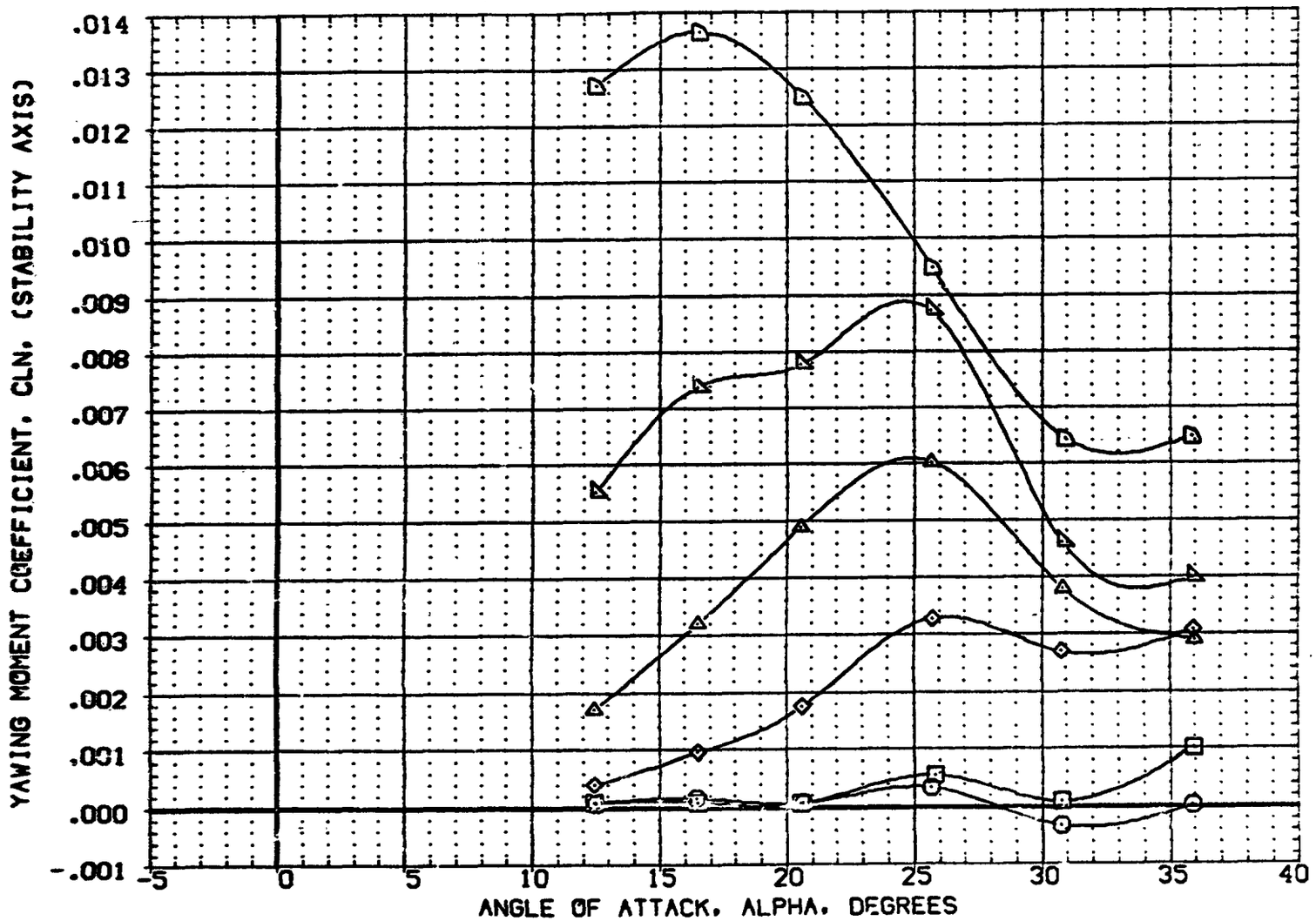
EFFECT OF ROLL JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM040)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	.000	1.000
(CPM045)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	37.000	1.000
(CPM046)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	99.000	1.000
(CPM049)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	199.000	1.000
(CPM050)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	328.000	1.000
(CPM054)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



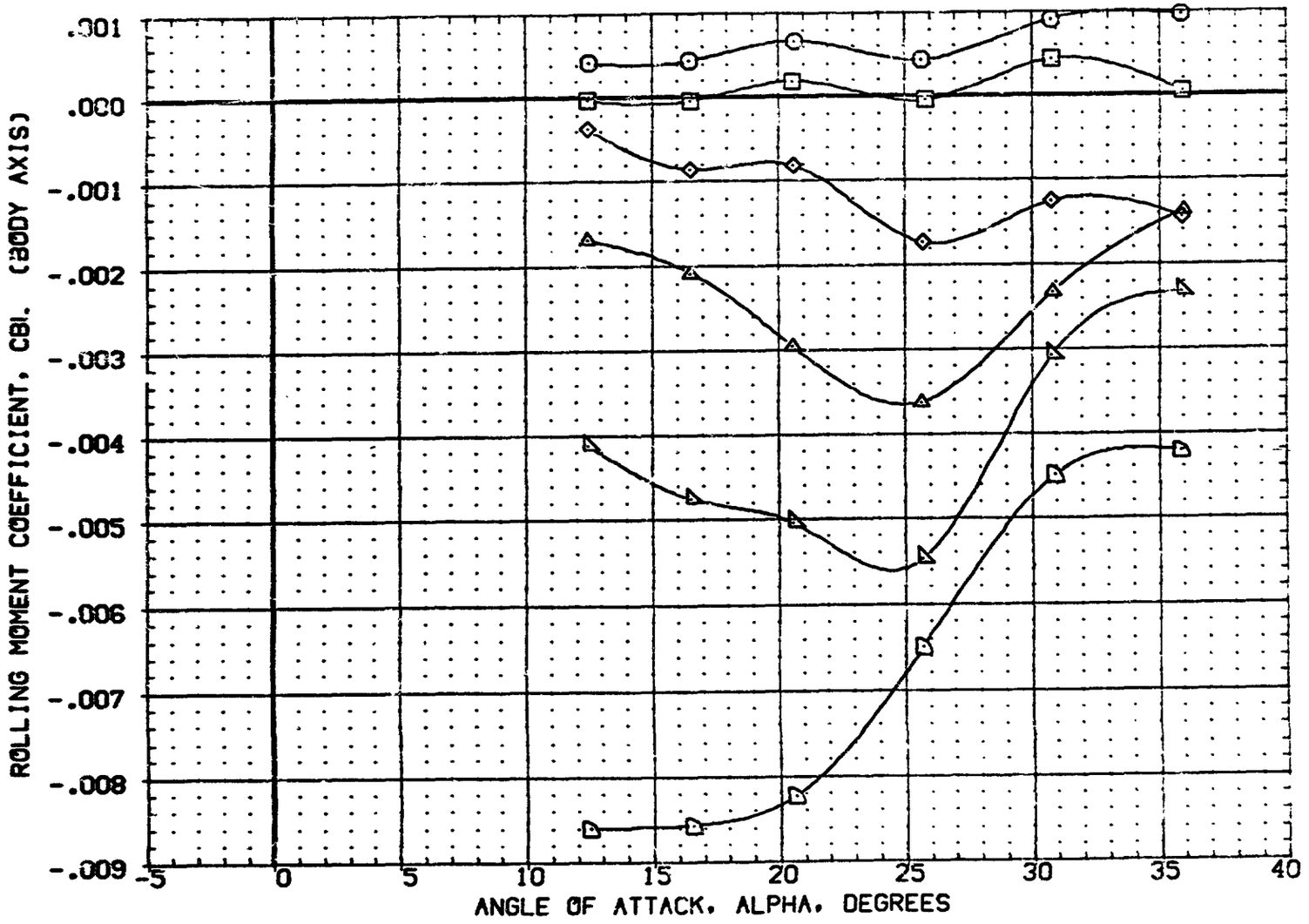
EFFECT OF ROLL JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM040)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	.000	1.000
(CPM045)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	37.000	1.000
(CPM046)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	99.000	1.000
(CPM049)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	199.000	1.000
(CPM050)	▽	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	328.000	1.000
(CPM054)	▷	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



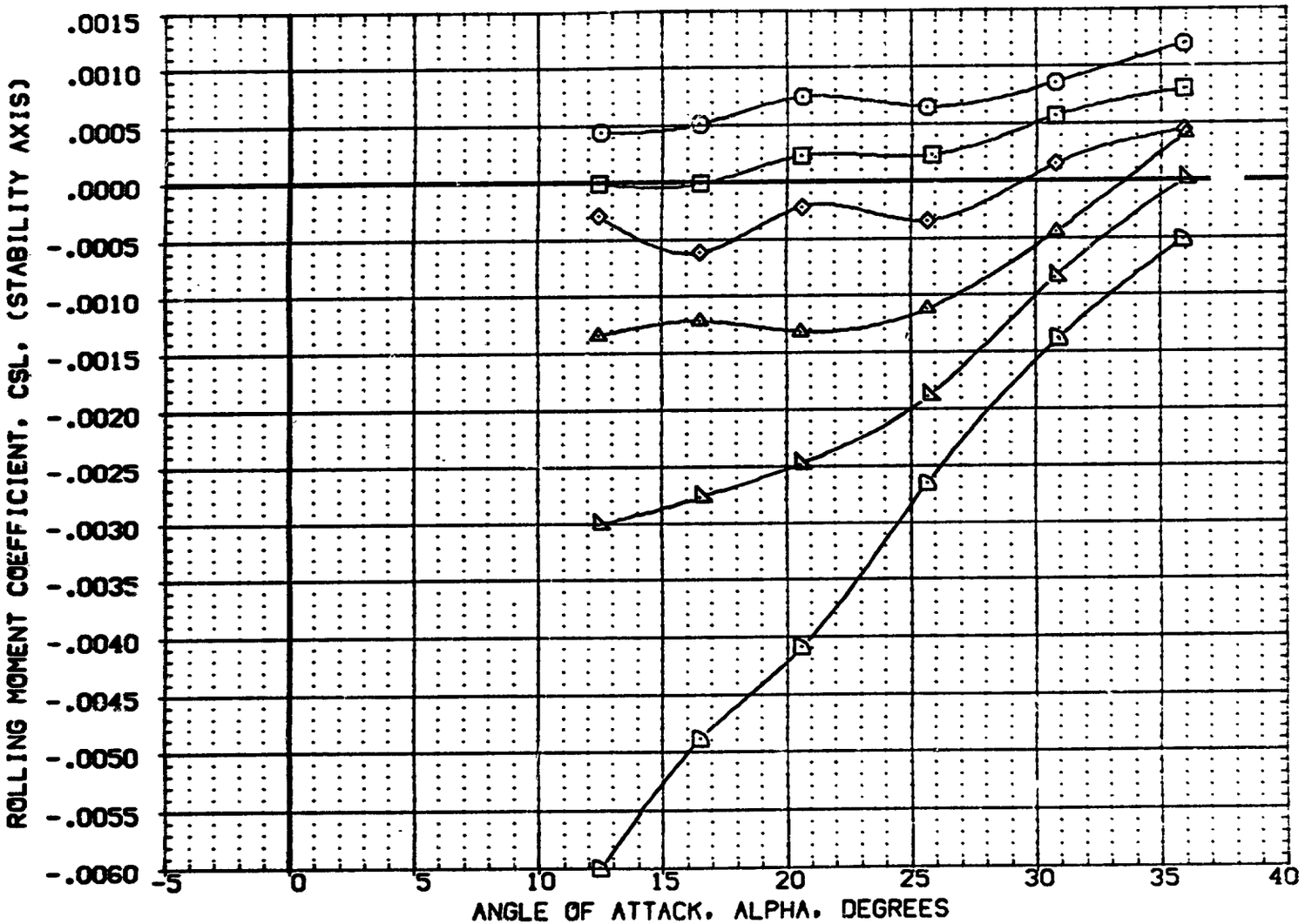
EFFECT OF ROLL JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM040)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BWTN4	.000	.000	1.000
(CPM045)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BWTN4	.000	37.000	1.000
(CPM046)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BWTN4	.000	99.000	1.000
(CPM049)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BWTN4	.000	199.000	1.000
(CPM050)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BWTN4	.000	328.000	1.000
(CPM054)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BWTN4	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



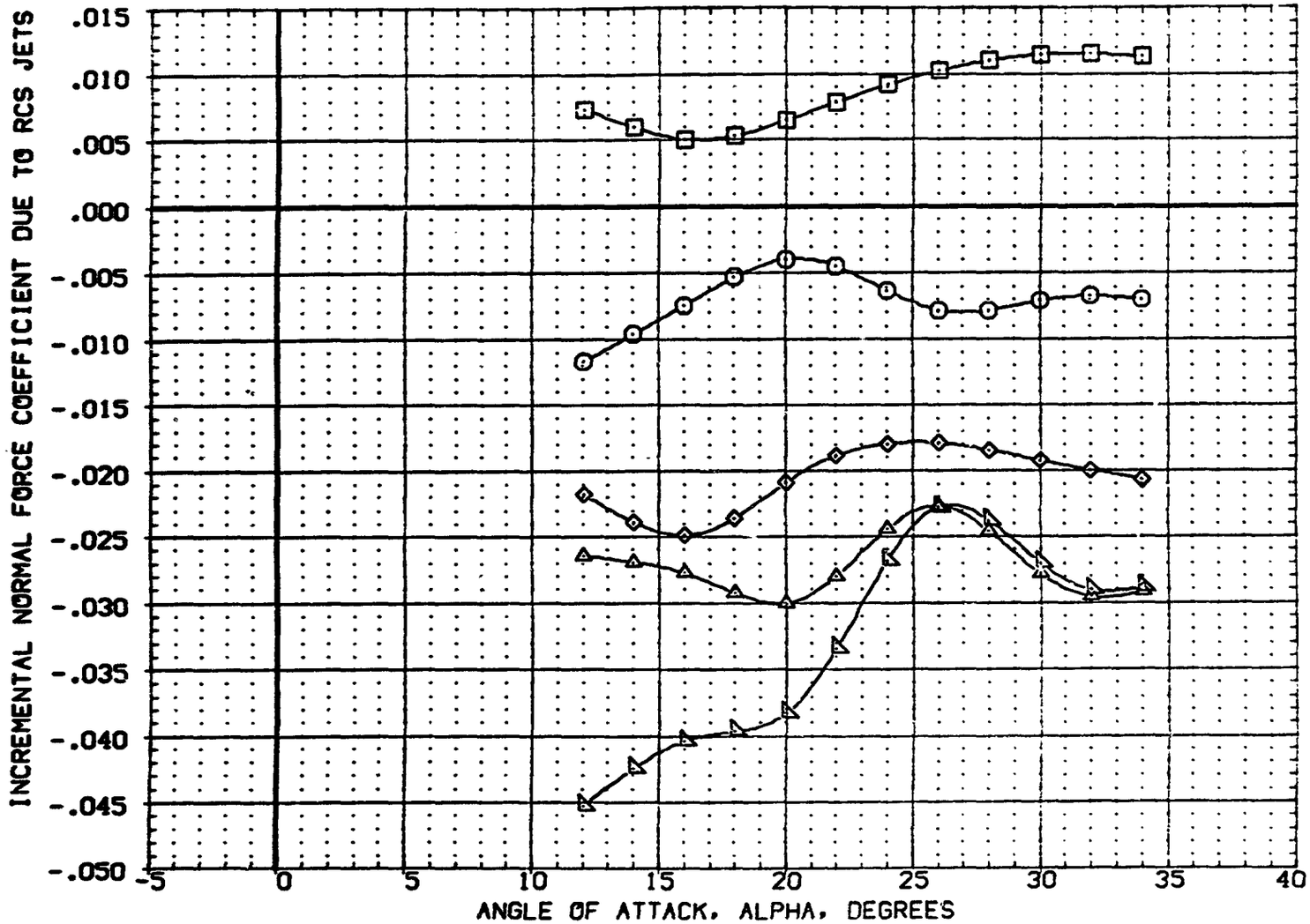
EFFECT OF ROLL JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM045)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	37.000	1.000
(APM046)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	99.000	1.000
(APM049)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	199.000	1.000
(APM050)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	328.000	1.000
(APM054)	◺	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



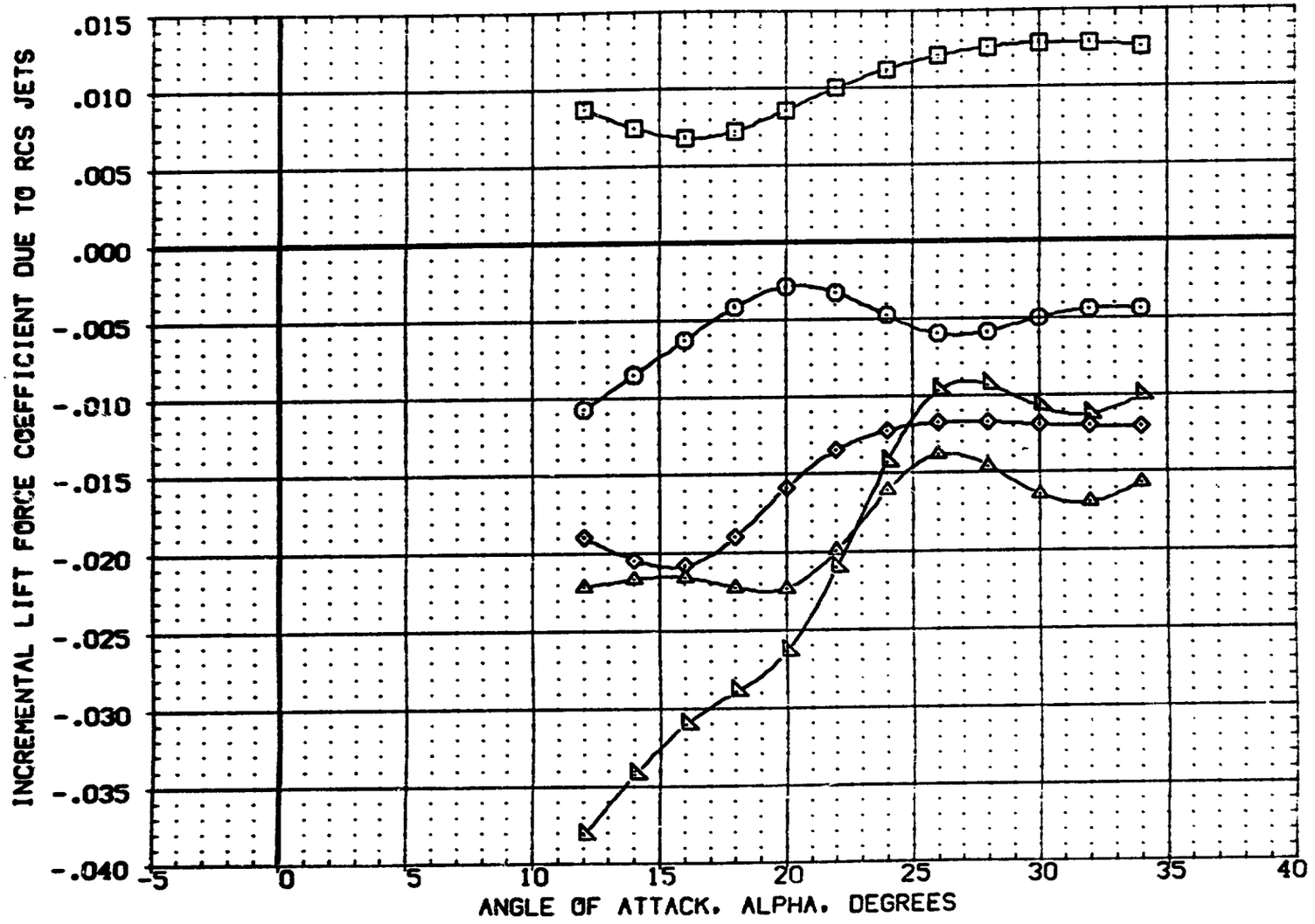
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD45)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	37.000	1.000
(APMD46)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	99.000	1.000
(APMD49)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	199.000	1.000
(APMD50)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	328.000	1.000
(APMD54)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



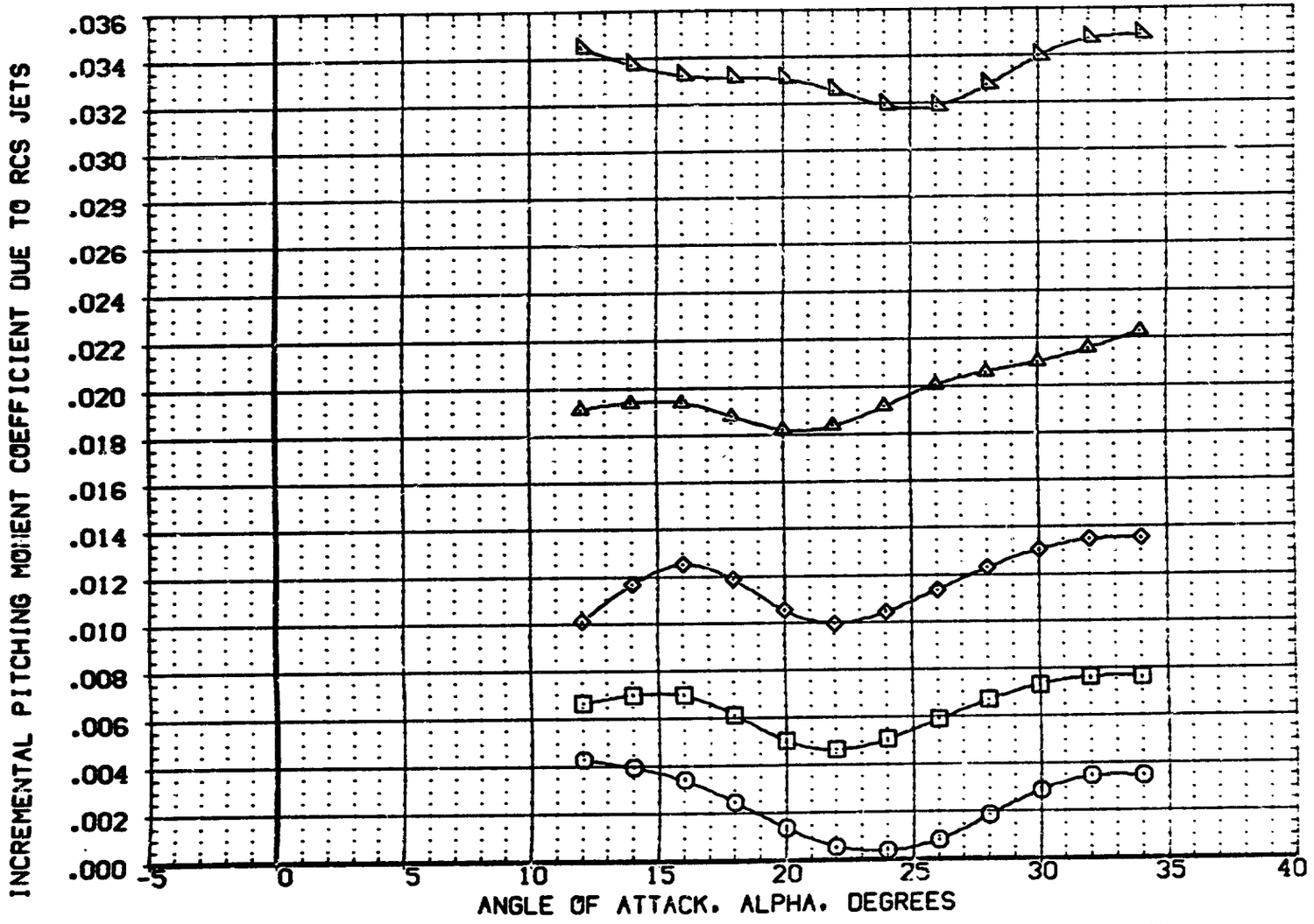
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD45)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	37.000	1.000
(APMD46)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	99.000	1.000
(APMD49)	⊠	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	199.000	1.000
(APMD50)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	328.000	1.000
(APMD54)	◺	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.[illegible]52	INCHES
XMRP	12.95[illegible]	INCHES
YMRP	.000[illegible]	INCHES
ZMRP	6.000[illegible]	INCHES
SCALE	.0150	



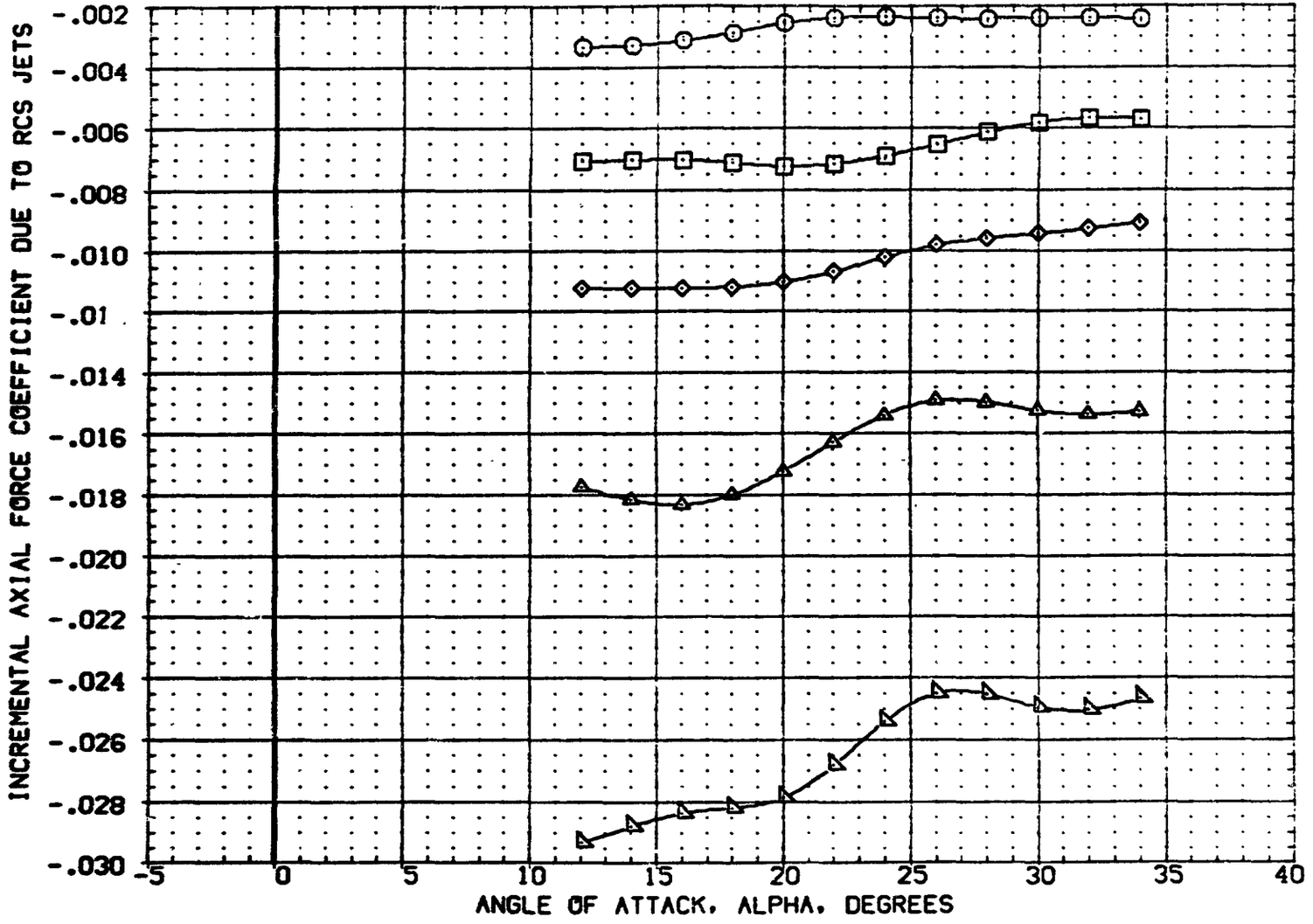
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD45)	○	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	37.000	1.000
(APMD46)	□	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	99.000	1.000
(APMD49)	◇	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	199.000	1.000
(APMD50)	△	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	326.000	1.000
(APMD54)	▽	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

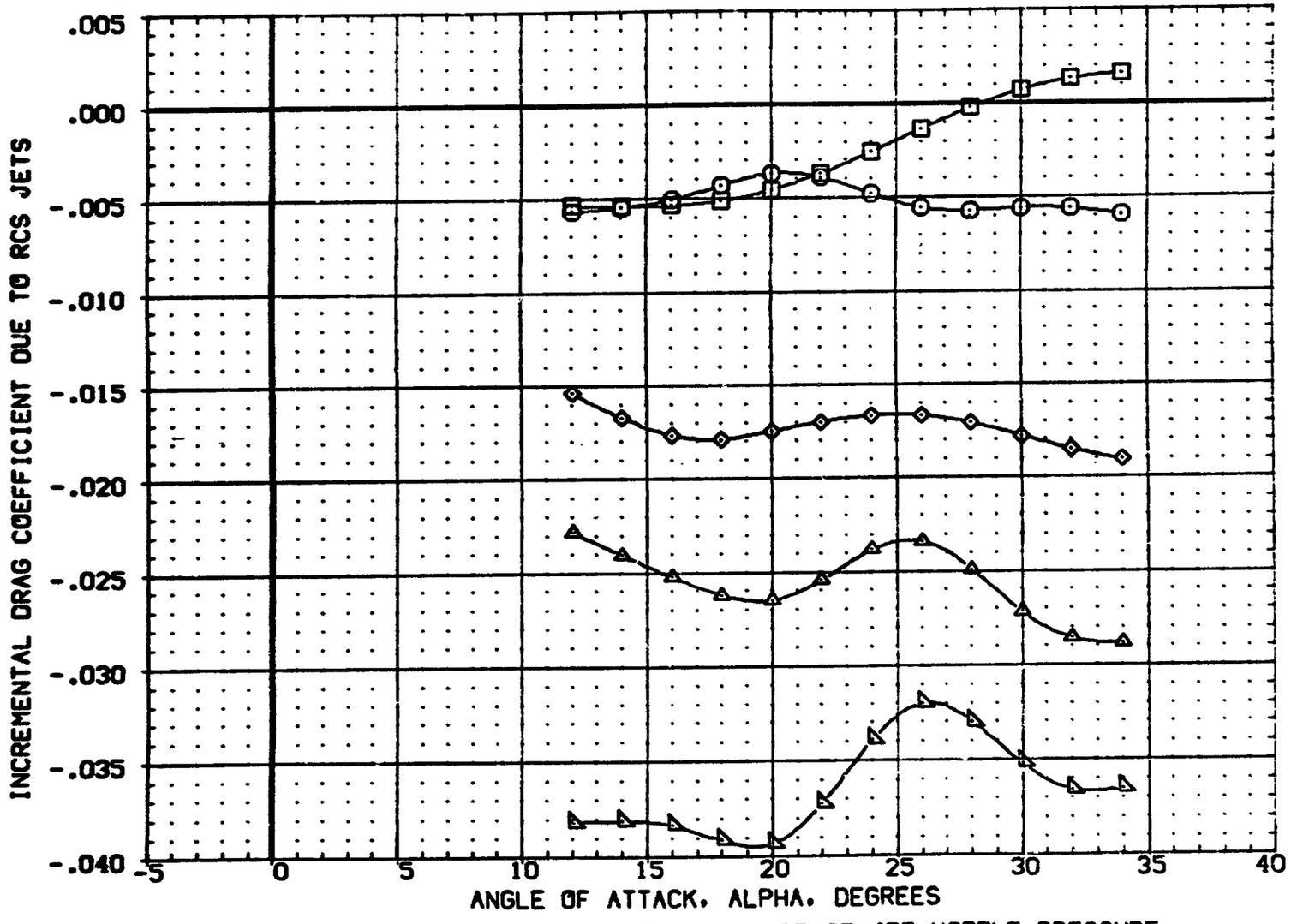


ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD45)	MA-7.UPVT 1031.ROCKWELL PRR 3RB. CONF. BVTN4	.000	37.000	1.000
(APMD46)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	99.000	1.000
(APMD49)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	199.000	1.000
(APMD50)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	328.000	1.000
(APMD54)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

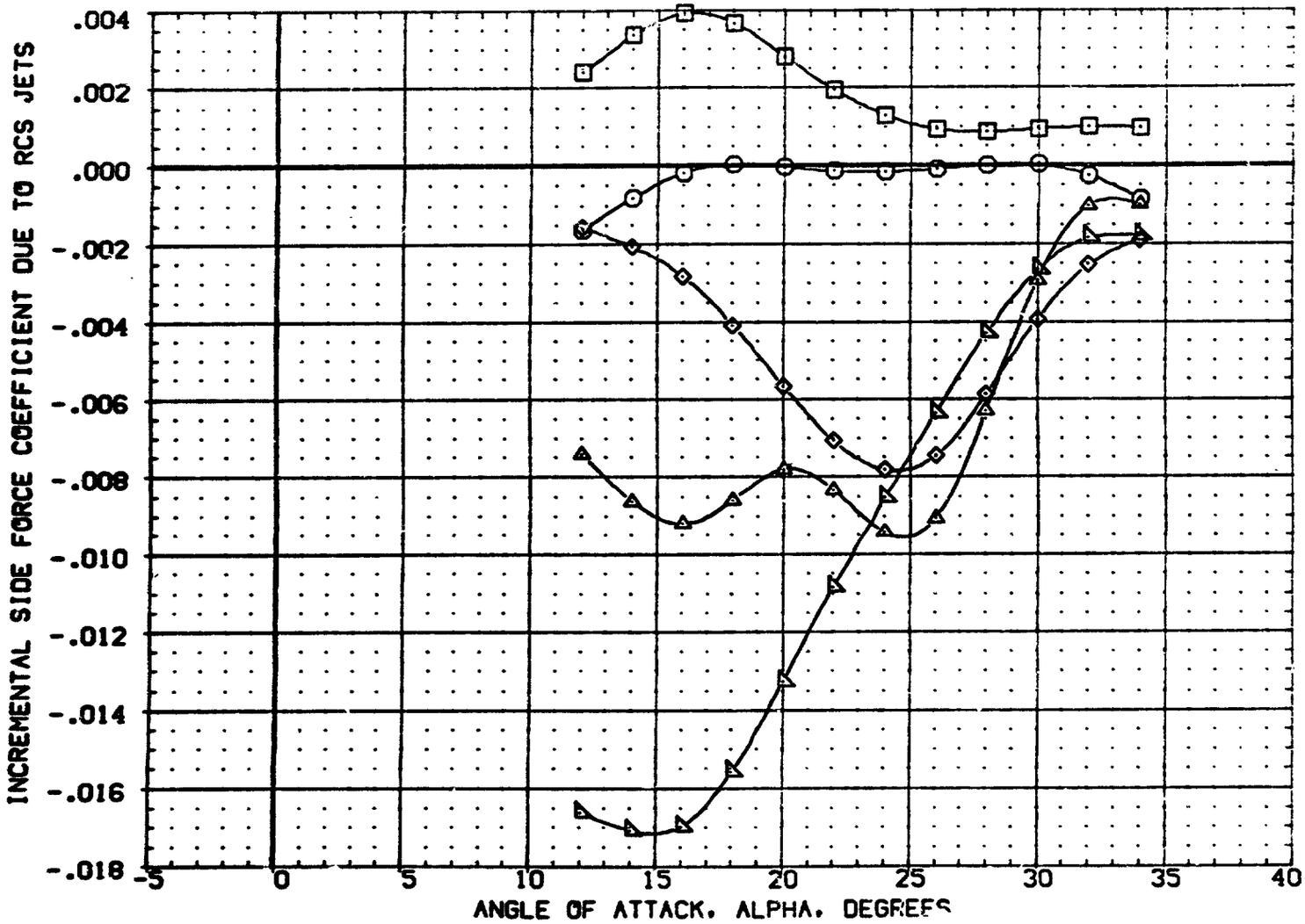


ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM045)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	37.000	1.000
(APM046)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	99.000	1.000
(APM049)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	199.000	1.000
(APM050)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	328.000	1.000
(APM054)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



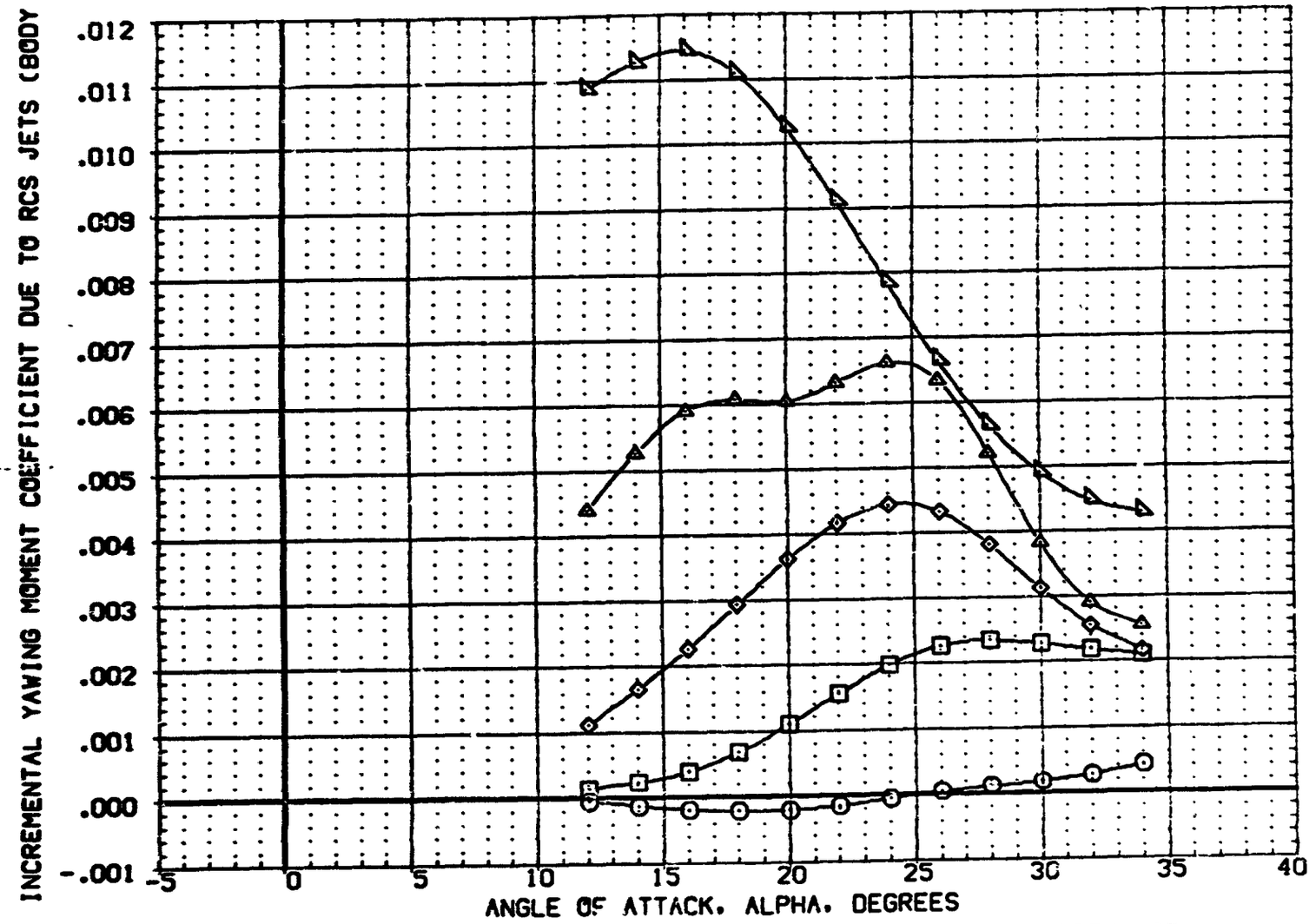
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF [illegible]E PRESSURE

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM045)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN4	.000	37.000	1.000
(APM046)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN4	.000	99.000	1.000
(APM049)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN4	.000	199.000	1.000
(APM050)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN4	.000	328.000	1.000
(APM054)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN4	.000	600.000	1.000

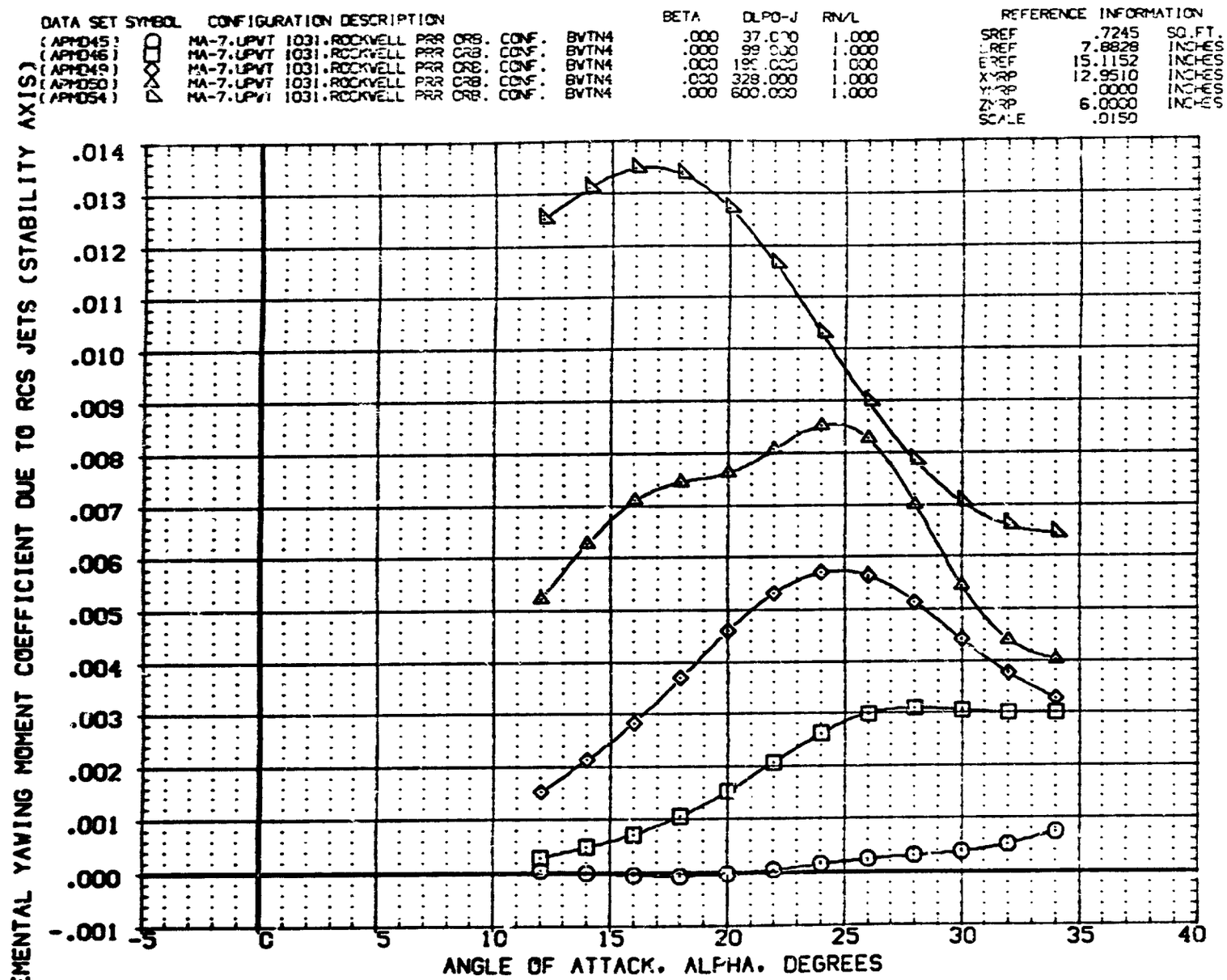
REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



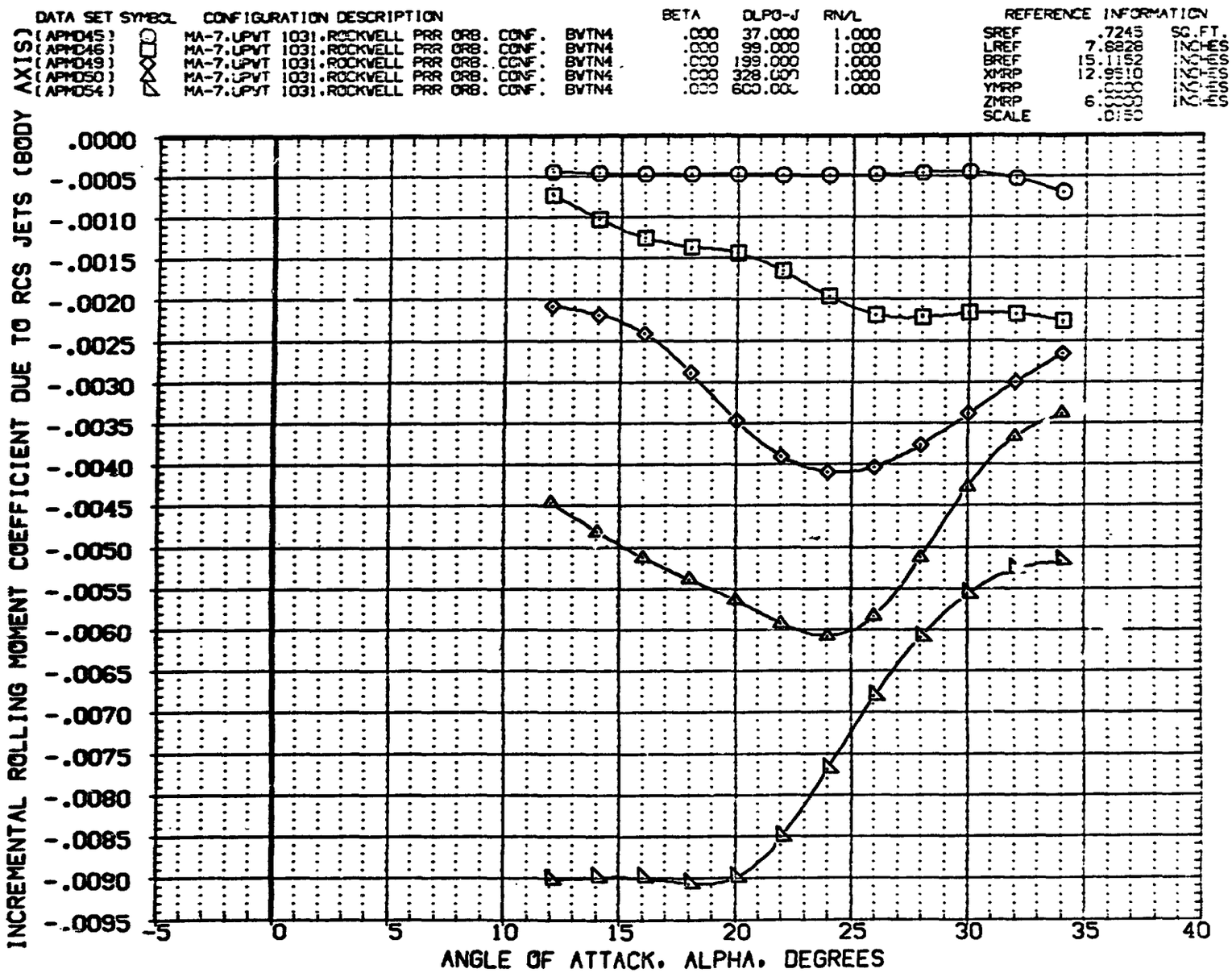
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET NOZZLE PRESSURE

(A)MACH = 4.00



ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET NOZZLE PRESSURE

(A)MACH = 4.00



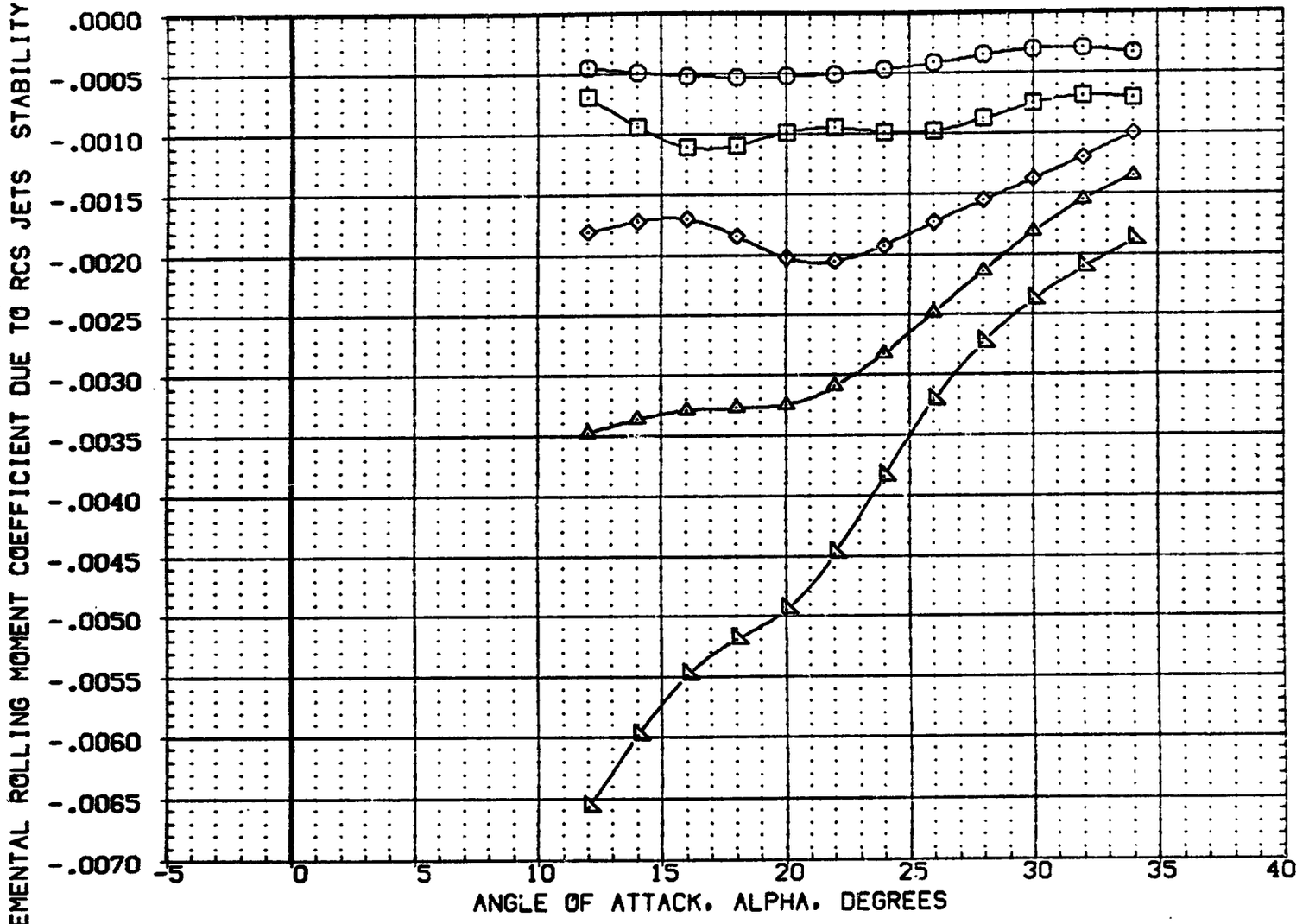
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET NOZZLE PRESSURE

(A)MACH = 4.60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM045)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	37.000	1.000
(APM046)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	99.000	1.000
(APM049)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	199.000	1.000
(APM050)	☆	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	328.000	1.000
(APM054)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BWTN4	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



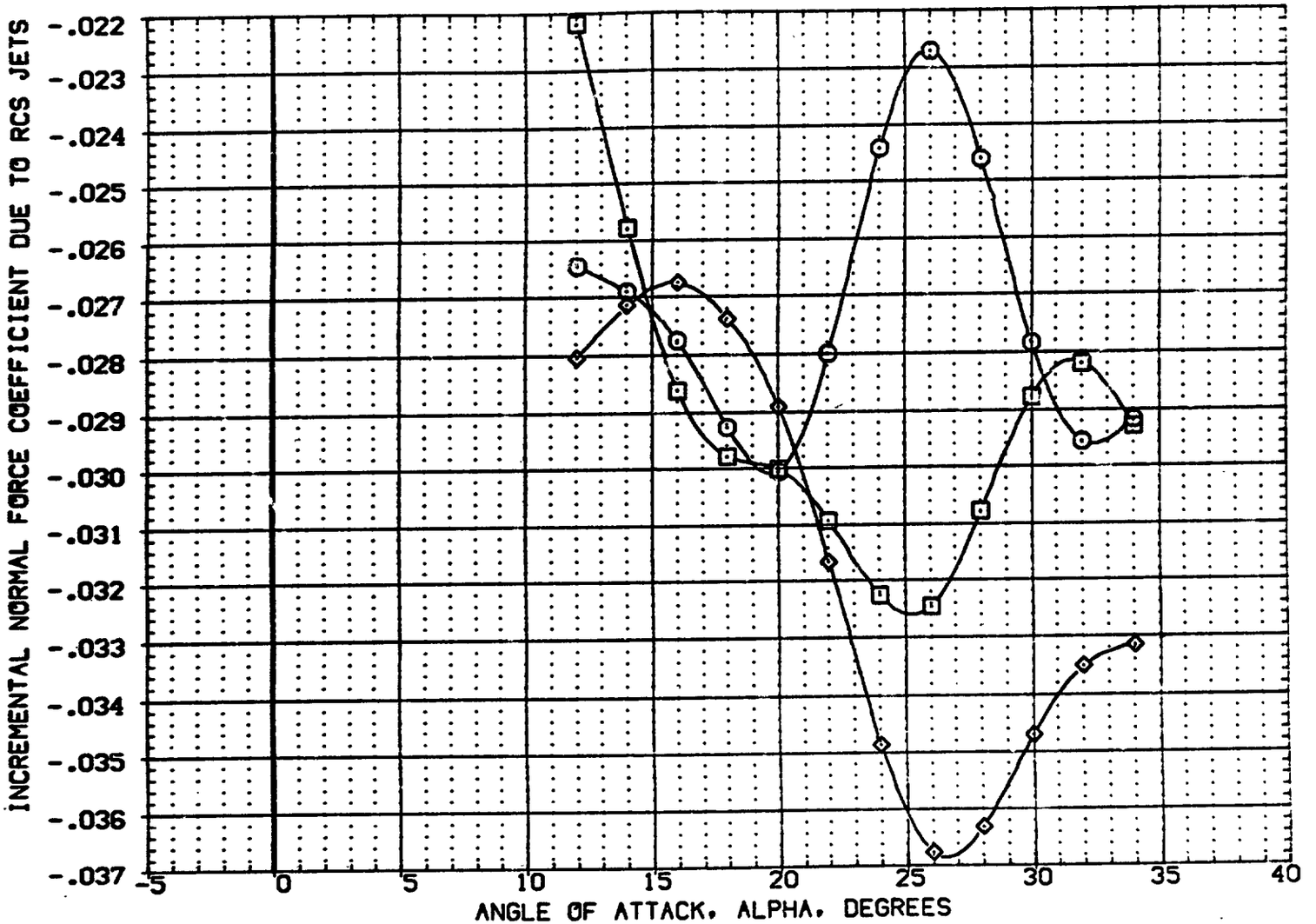
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF JET NOZZLE PRESSURE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APMDS0) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	328.000	1.000
(APMDS1) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	-2.500	328.000	1.000
(APMDS2) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	-5.000	328.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



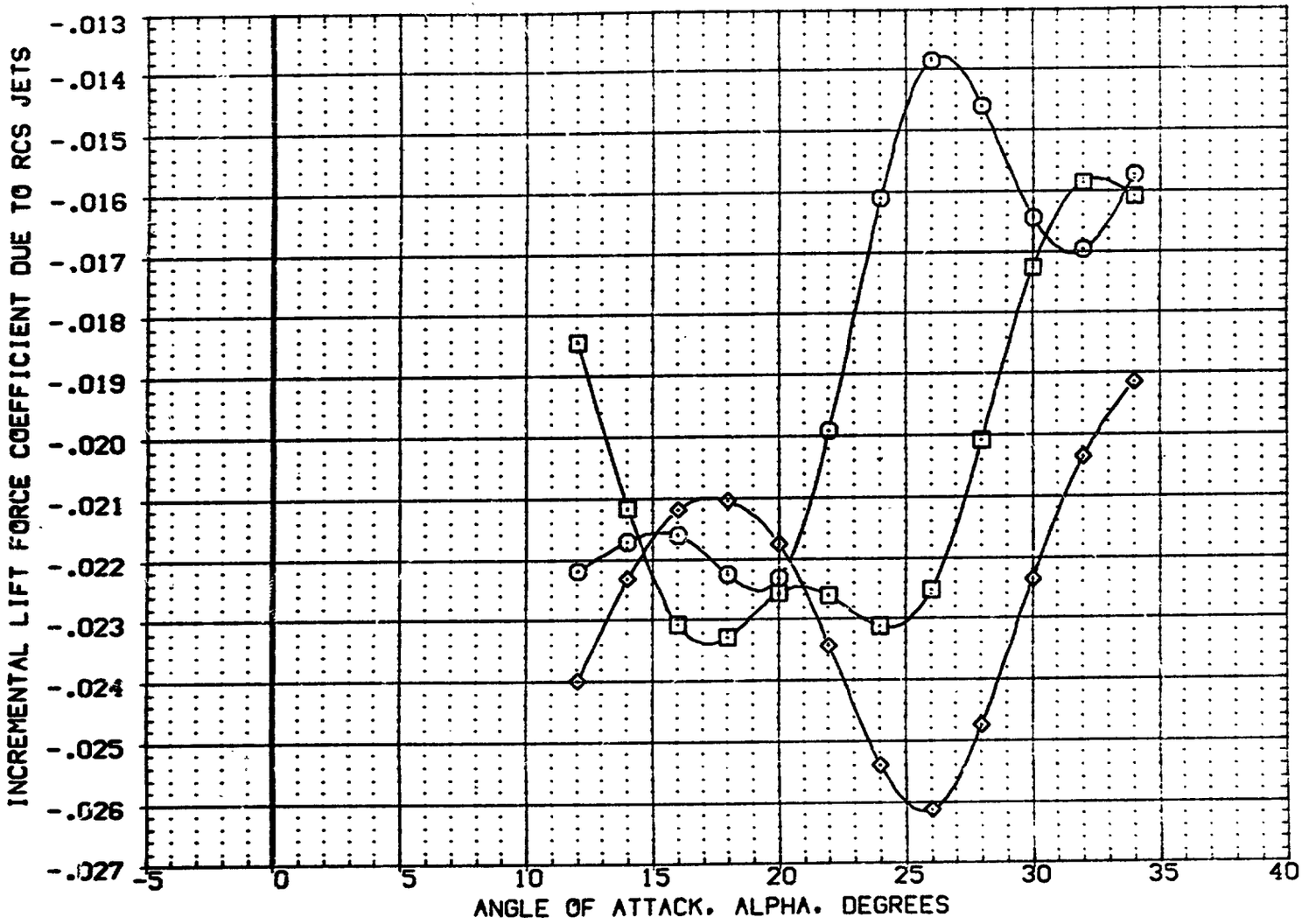
ROLL JET INTERFERENCE(INCREMENTAL DATA),EFFECTIVENESS IN SIDESLIP

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM050)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN4	.000	328.000	1.000
(APM051)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN4	-2.500	328.000	1.000
(APM052)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN4	-5.000	328.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



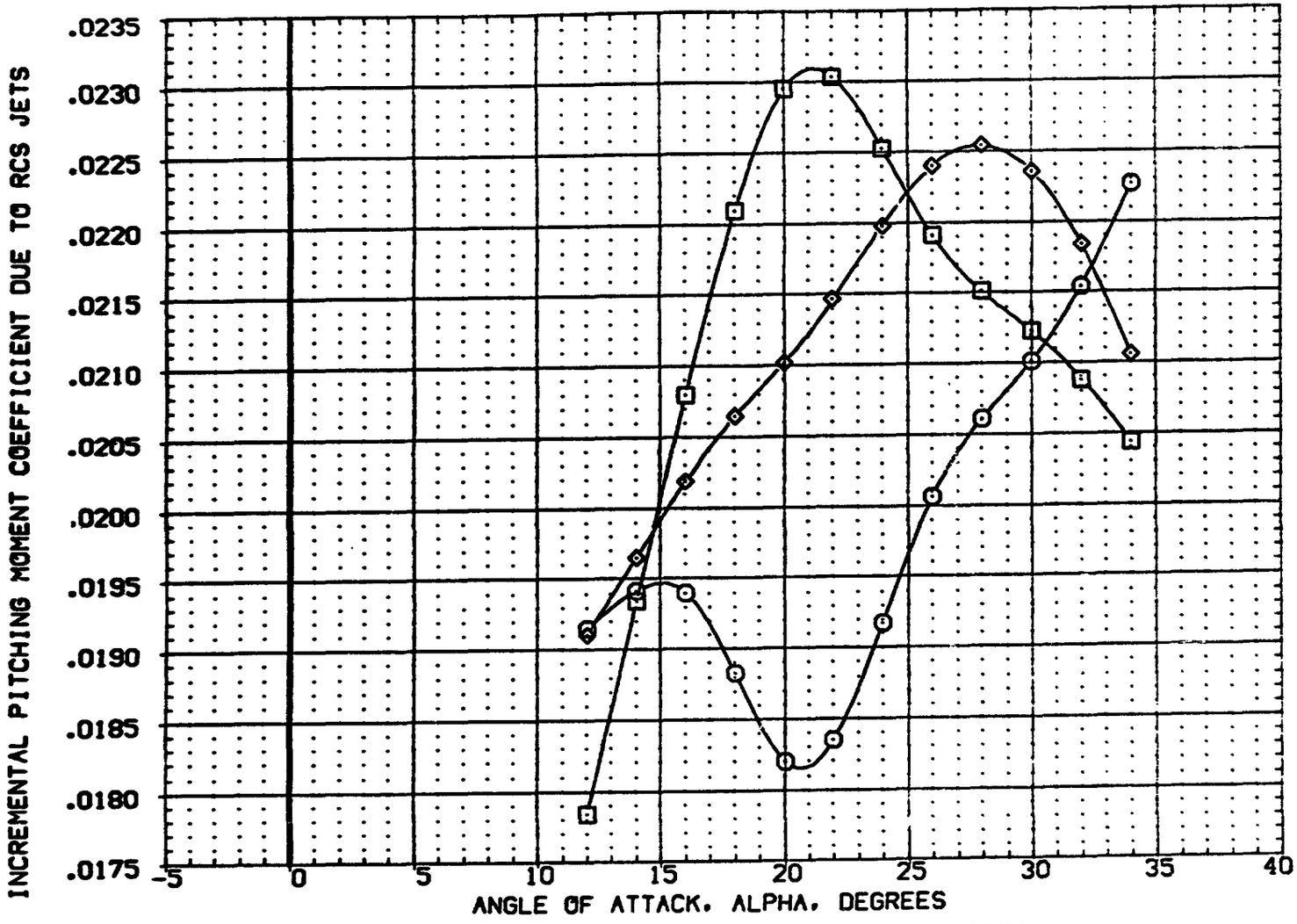
ROLL JET INTERFERENCE(INCREMENTAL DATA),EFFECTIVENESS IN SIDESLIP

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM050)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	328.000	1.000
(APM051)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	-2.500	328.000	1.000
(APM052)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	-5.000	328.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



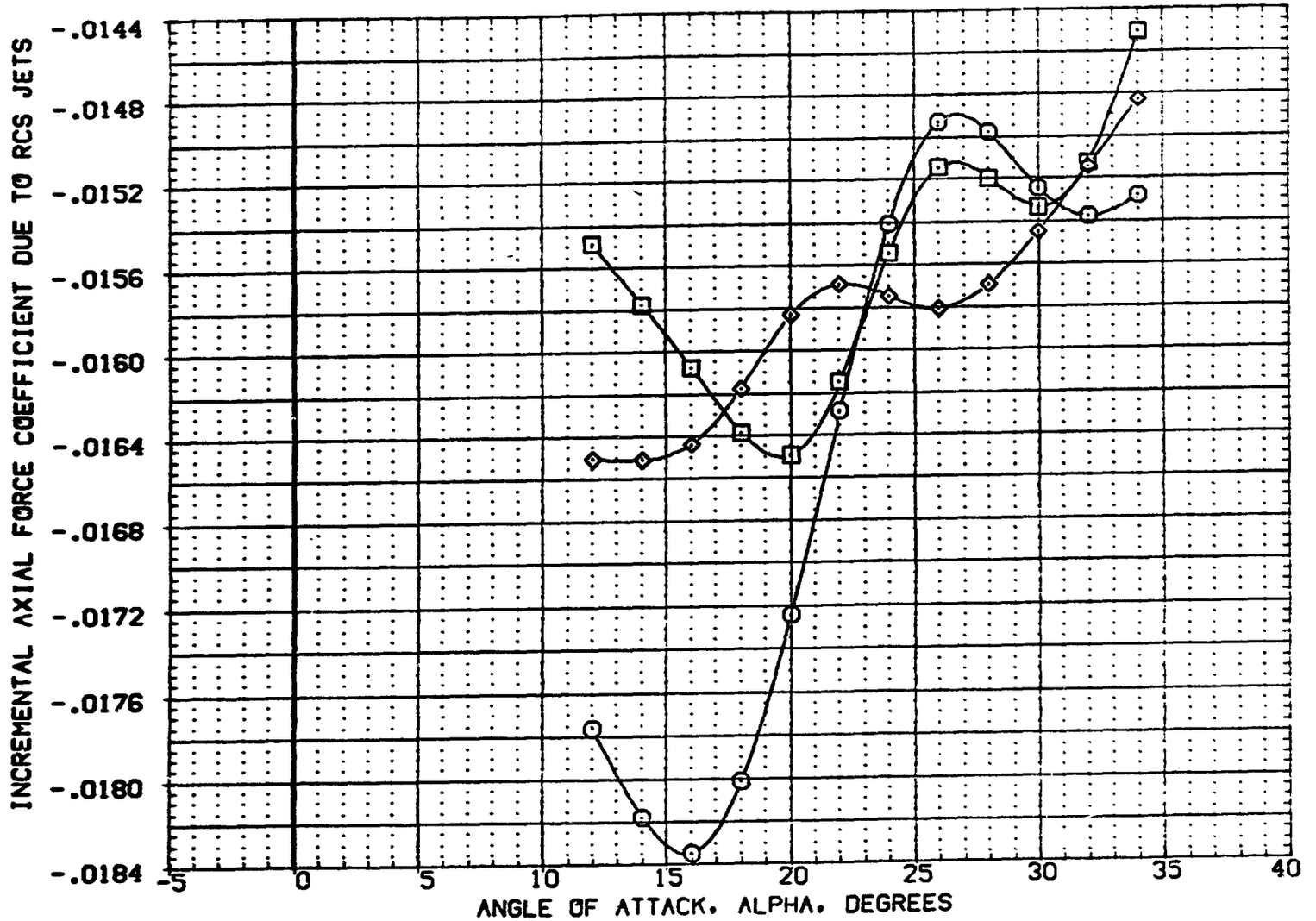
ROLL JET INTERFERENCE(INCREMENTAL DATA),EFFECTIVENESS IN SIDESLIP

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM050)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	328.000	1.000
(APM051)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	-2.500	328.000	1.000
(APM052)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	-5.000	328.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



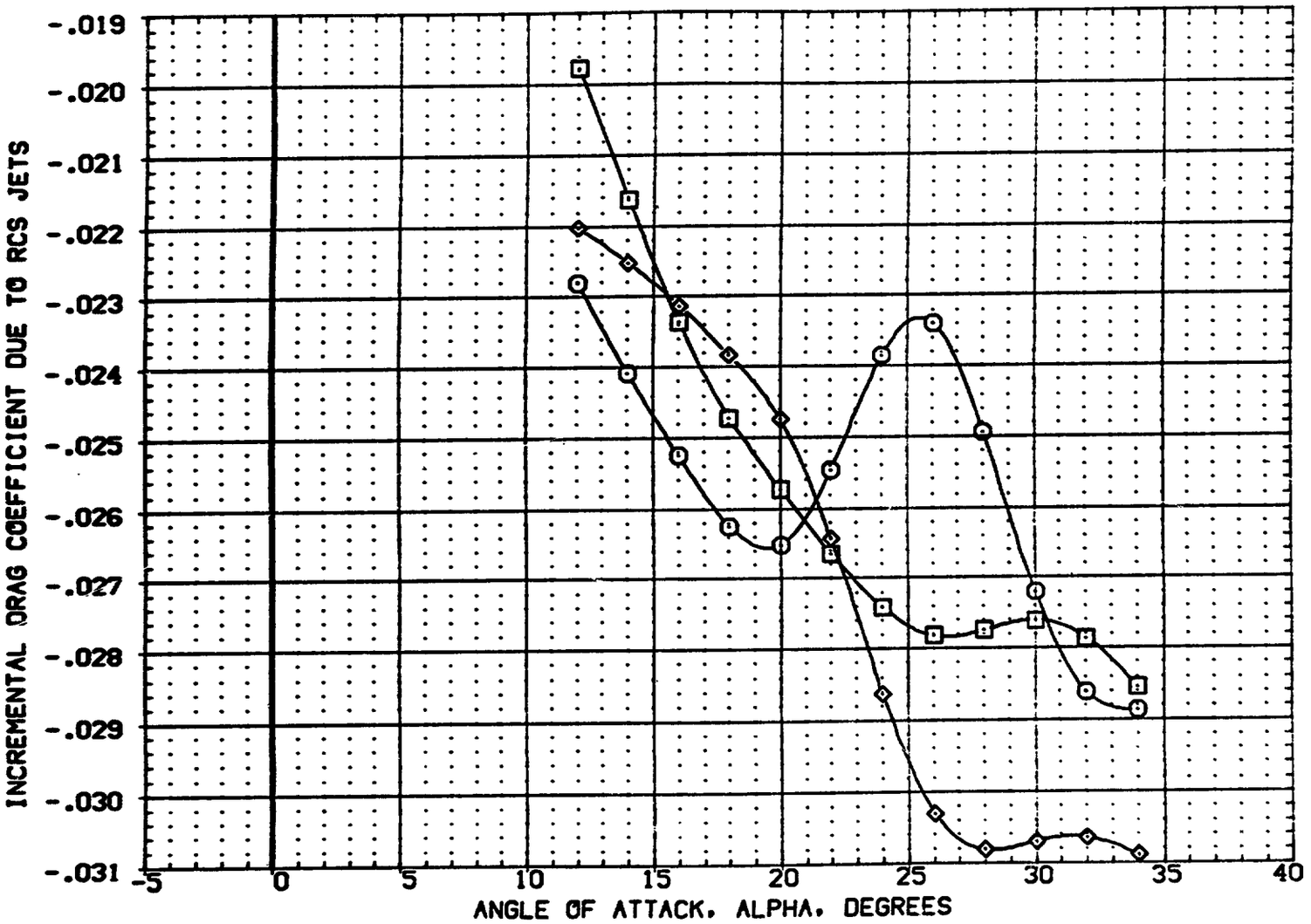
ROLL JET INTERFERENCE(INCREMENTAL DATA),EFFECTIVENESS IN SIDESLIP

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM050)	○	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BVTN4	.000	328.000	1.000
(APM051)	□	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BVTN4	-2.500	328.000	1.000
(APM052)	◇	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BVTN4	-5.000	328.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



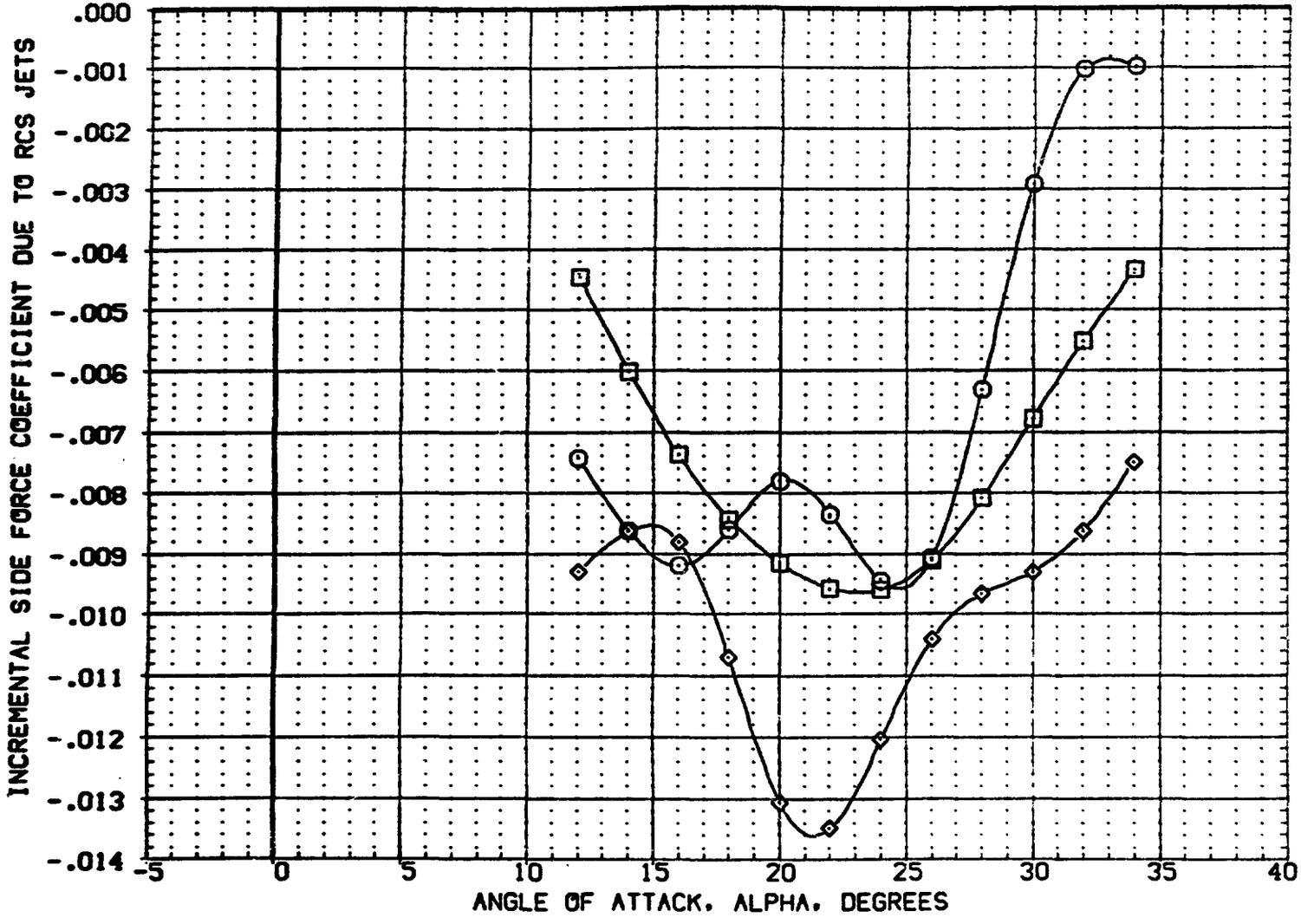
ROLL JET INTERFERENCE(INCREMENTAL DATA),EFFECTIVENESS IN SIDESLIP

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM050)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	328.000	1.000
(APM051)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	-2.500	328.000	1.000
(APM052)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	-5.000	328.000	1.000

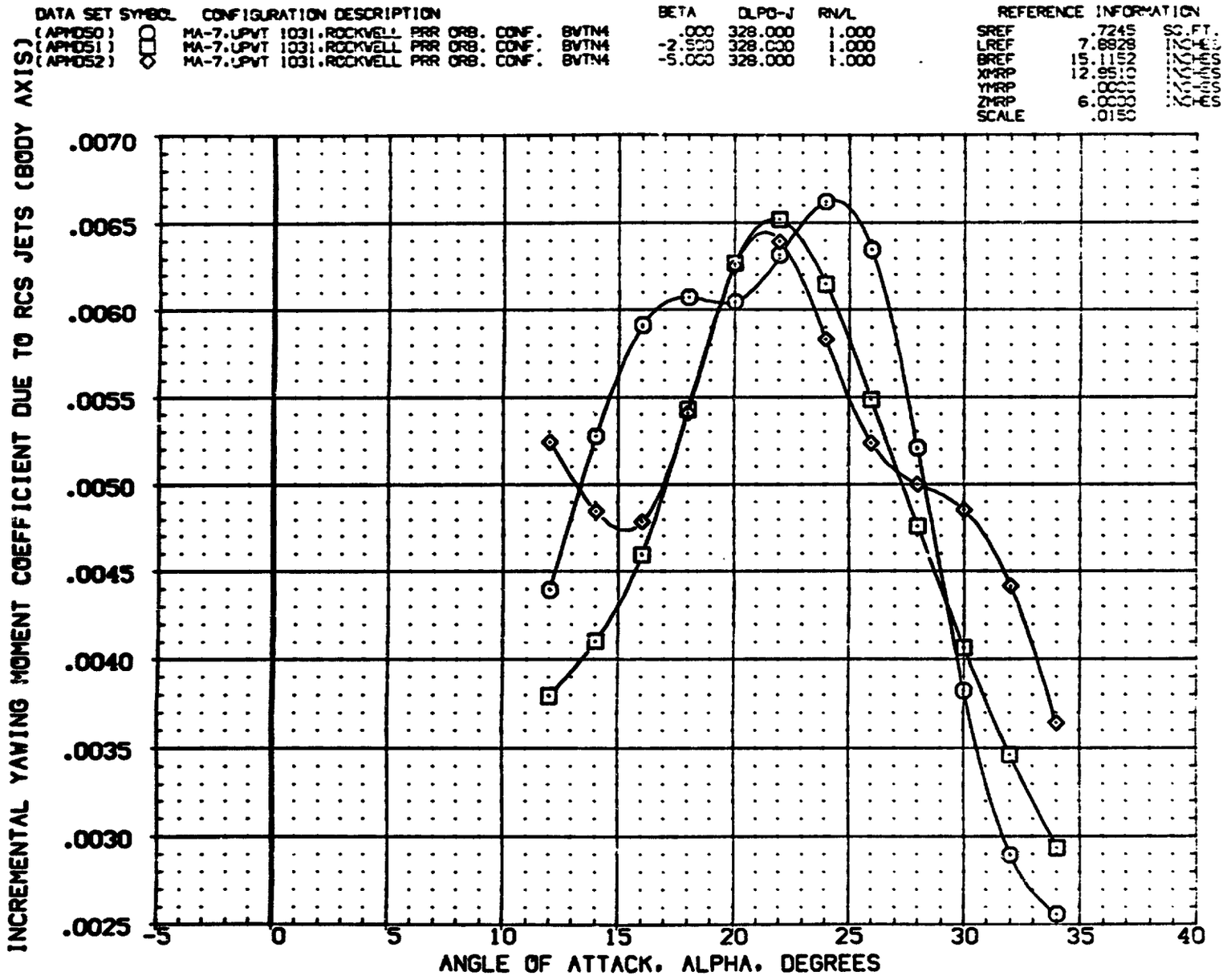
REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



ROLL JET INTERFERENCE(INCREMENTAL DATA),EFFECTIVENESS IN SIDESLIP

(A)MACH = 4.00

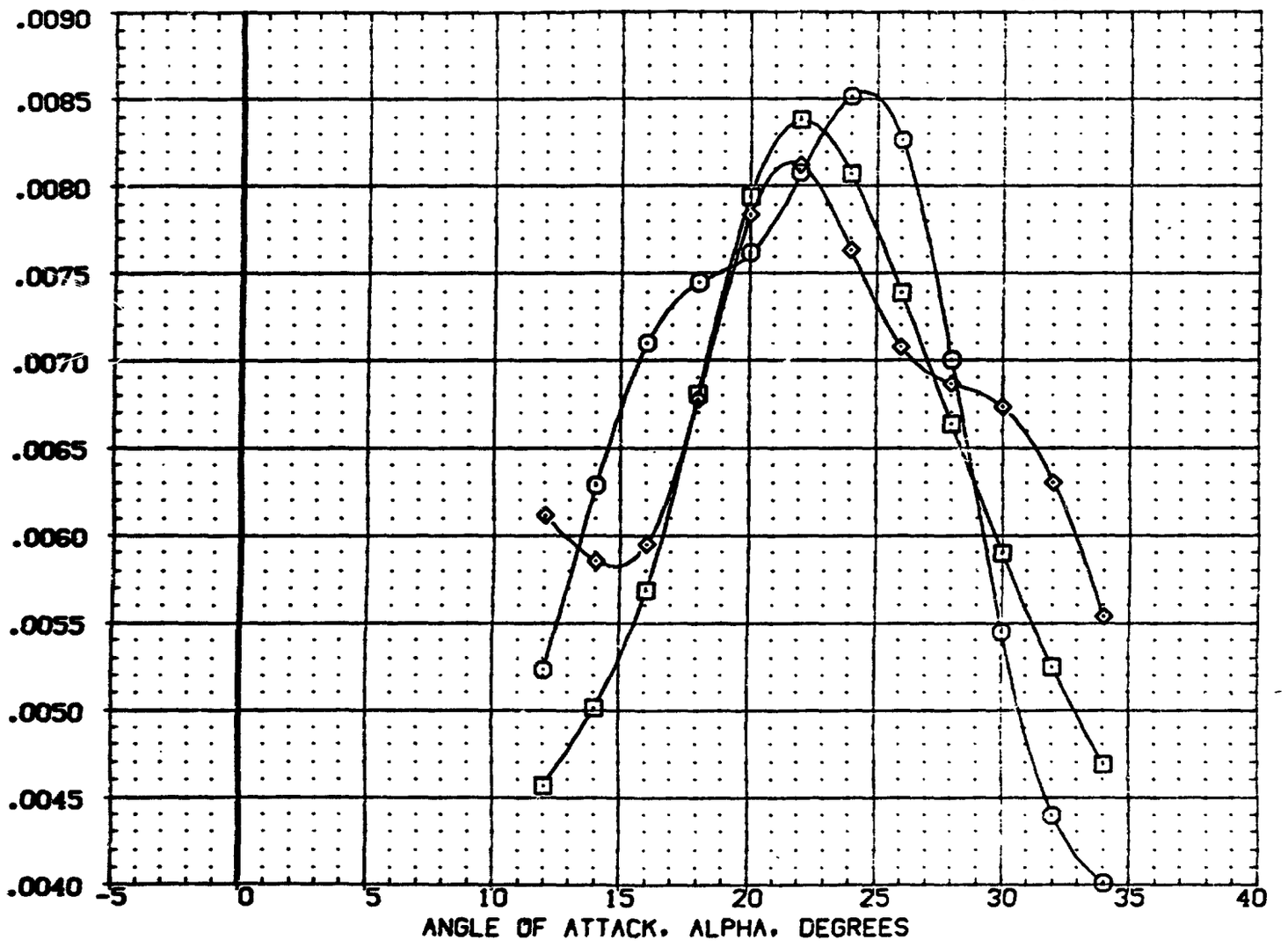


ROLL JET INTERFERENCE(INCREMENTAL DATA),EFFECTIVENESS IN SIDESLIP

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM050) ○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	328.000	1.000
(APM051) □	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	-2.500	328.000	1.000
(APM052) ◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	-5.000	328.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



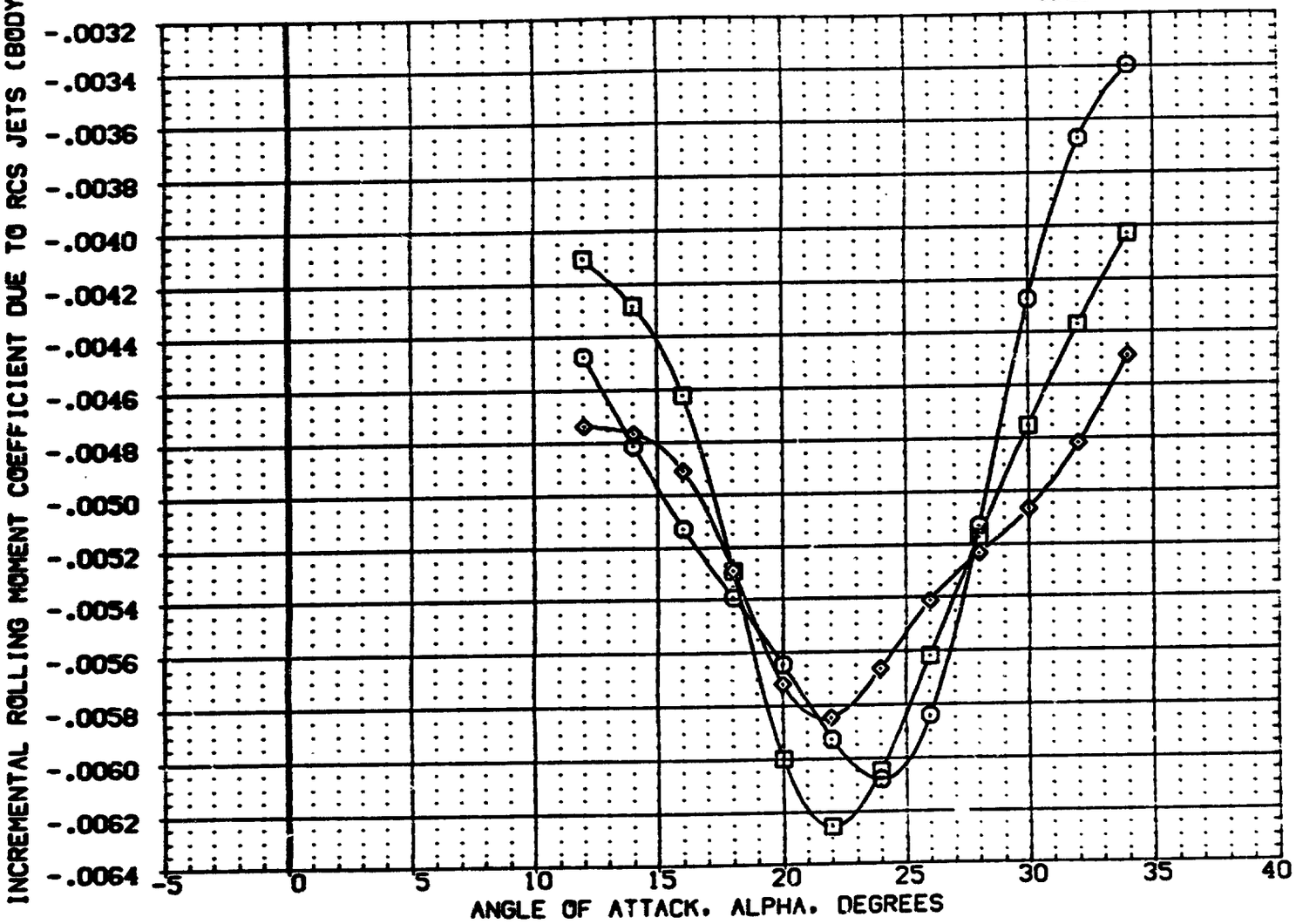
ROLL JET INTERFERENCE(INCREMENTAL DATA),EFFECTIVENESS IN SIDESLIP

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH050)	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BVTN4	.000	328.000	1.000
(APH051)	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BVTN4	-2.500	328.000	1.000
(APH052)	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BVTN4	-5.000	328.000	1.000

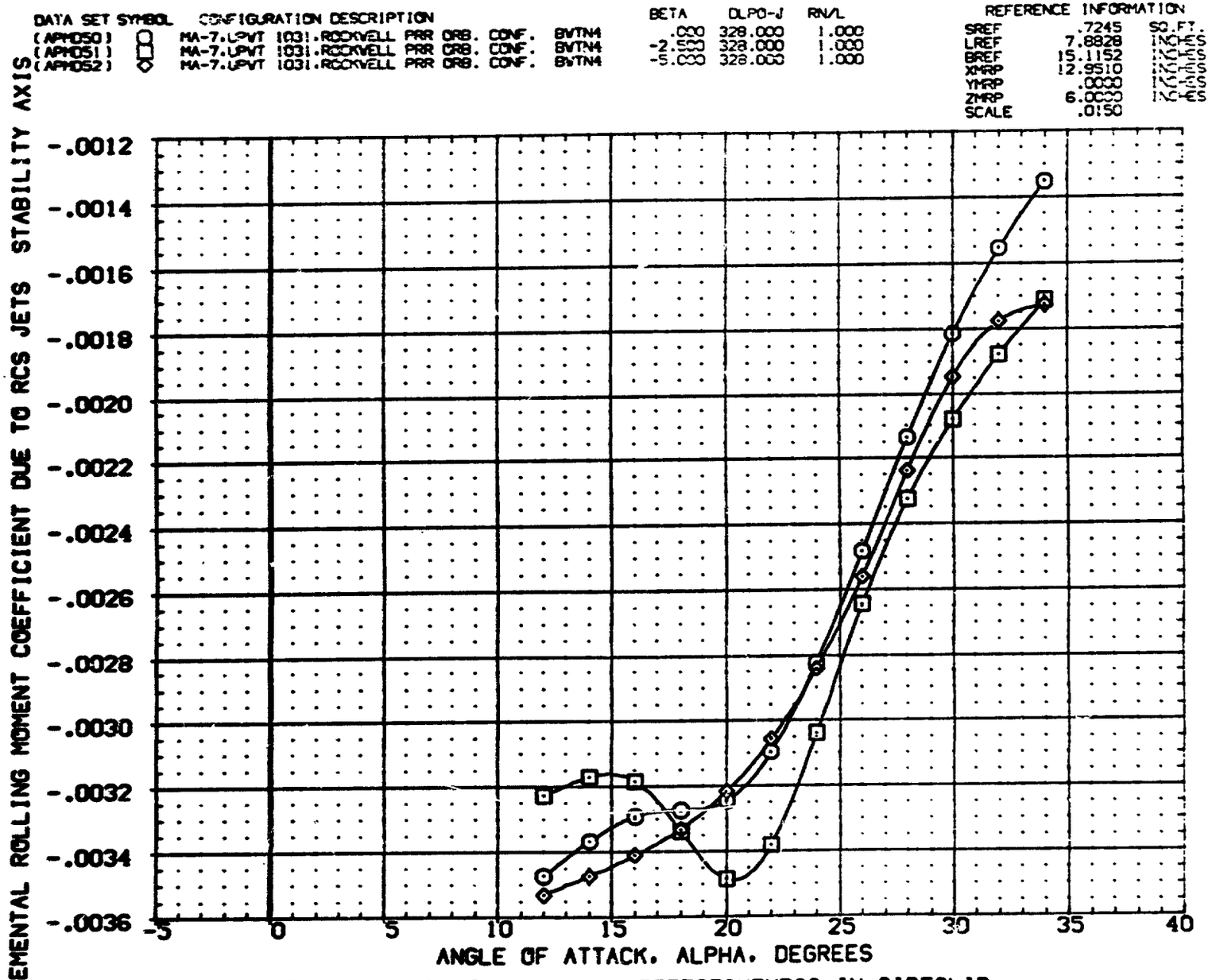
REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



ROLL JET INTERFERENCE(INCREMENTAL DATA),EFFECTIVENESS IN SIDESLIP

(A)MACH = 4.00



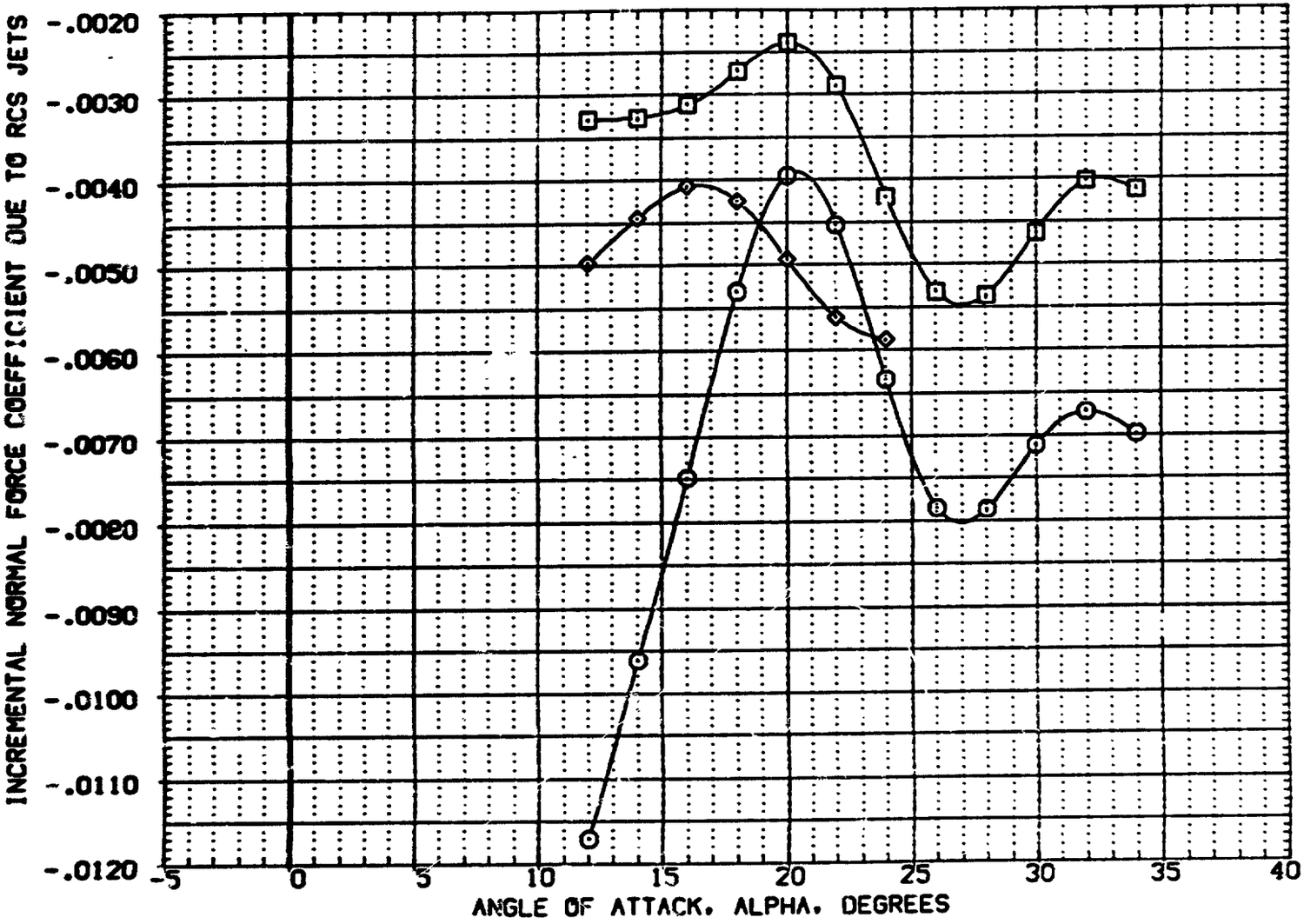
ROLL JET INTERFERENCE(INCREMENTAL DATA),EFFECTIVENESS IN SIDESLIP

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH045) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	37.000	1.000
(APH047) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	103.000	3.000
(APH048) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	178.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



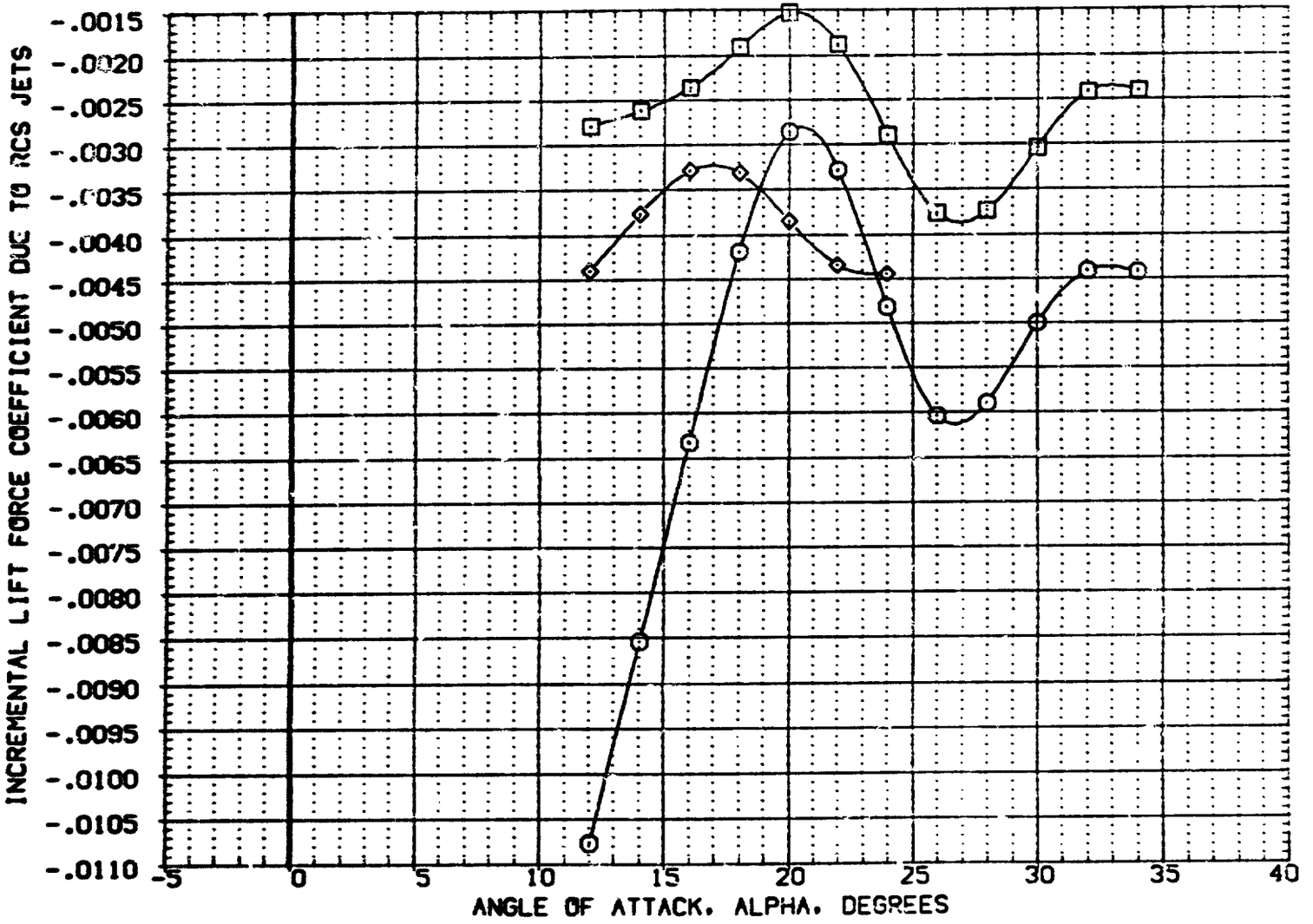
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=4.5)

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM045)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	37.000	1.000
(APM047)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	103.000	3.000
(APM048)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	178.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



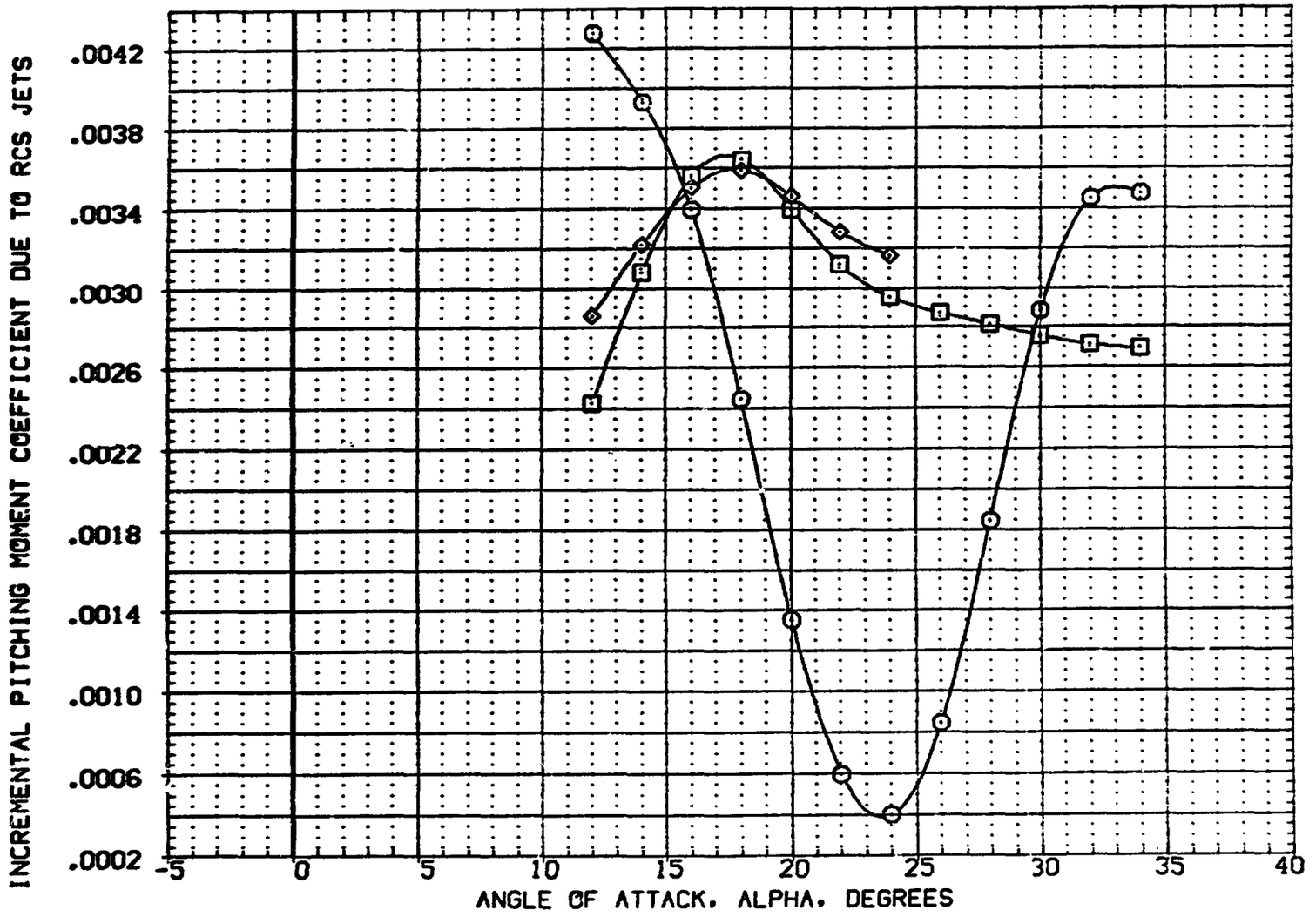
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=4.5)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM045) ○	MA-7.UPVT 1031.ROCKWELL PRR OPB. CONF.	BVTN4	.000	37.000	1.000
(APM047) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	103.000	3.000
(APM048) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	178.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



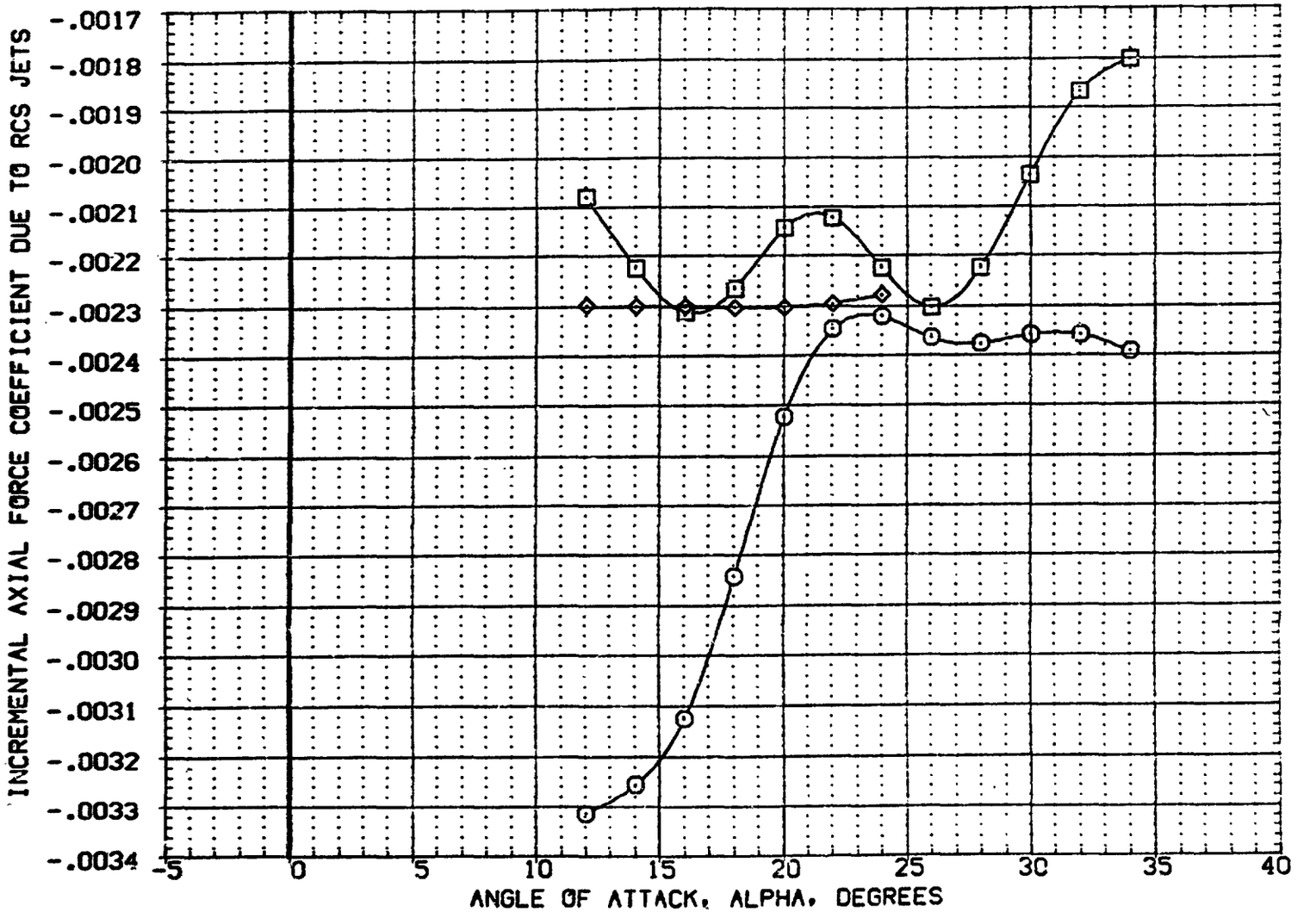
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=4.5)

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APMD45)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN4	.000	37.000	1.000
(APMD47)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN4	.000	103.000	3.000
(APMD48)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN4	.000	178.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8628	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



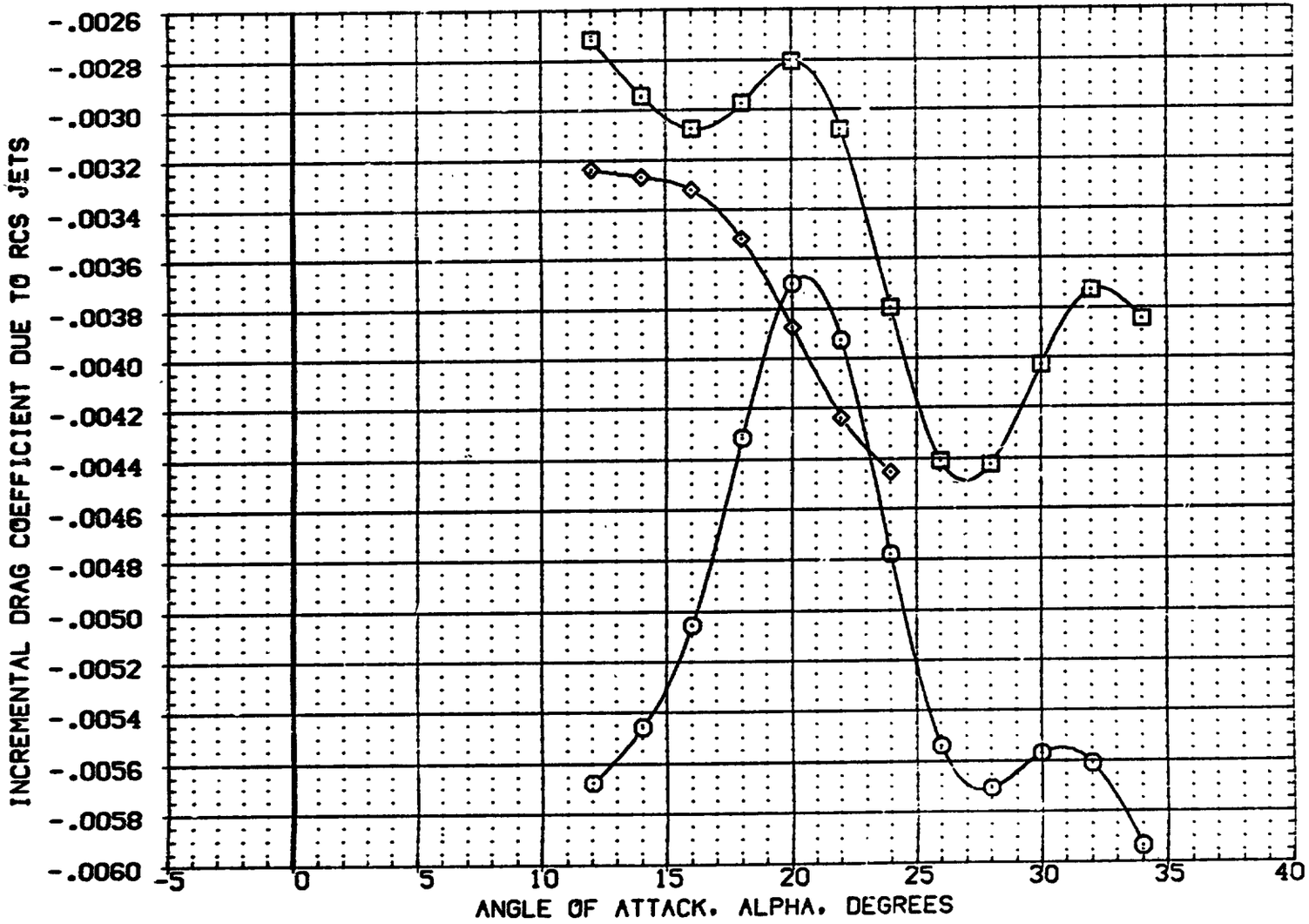
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=4.5)

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD45)	○	MA-7.UFVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	37.000	1.000
(APMD47)	□	MA-7.UFVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	103.000	3.000
(APMD48)	◇	MA-7.UFVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	178.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



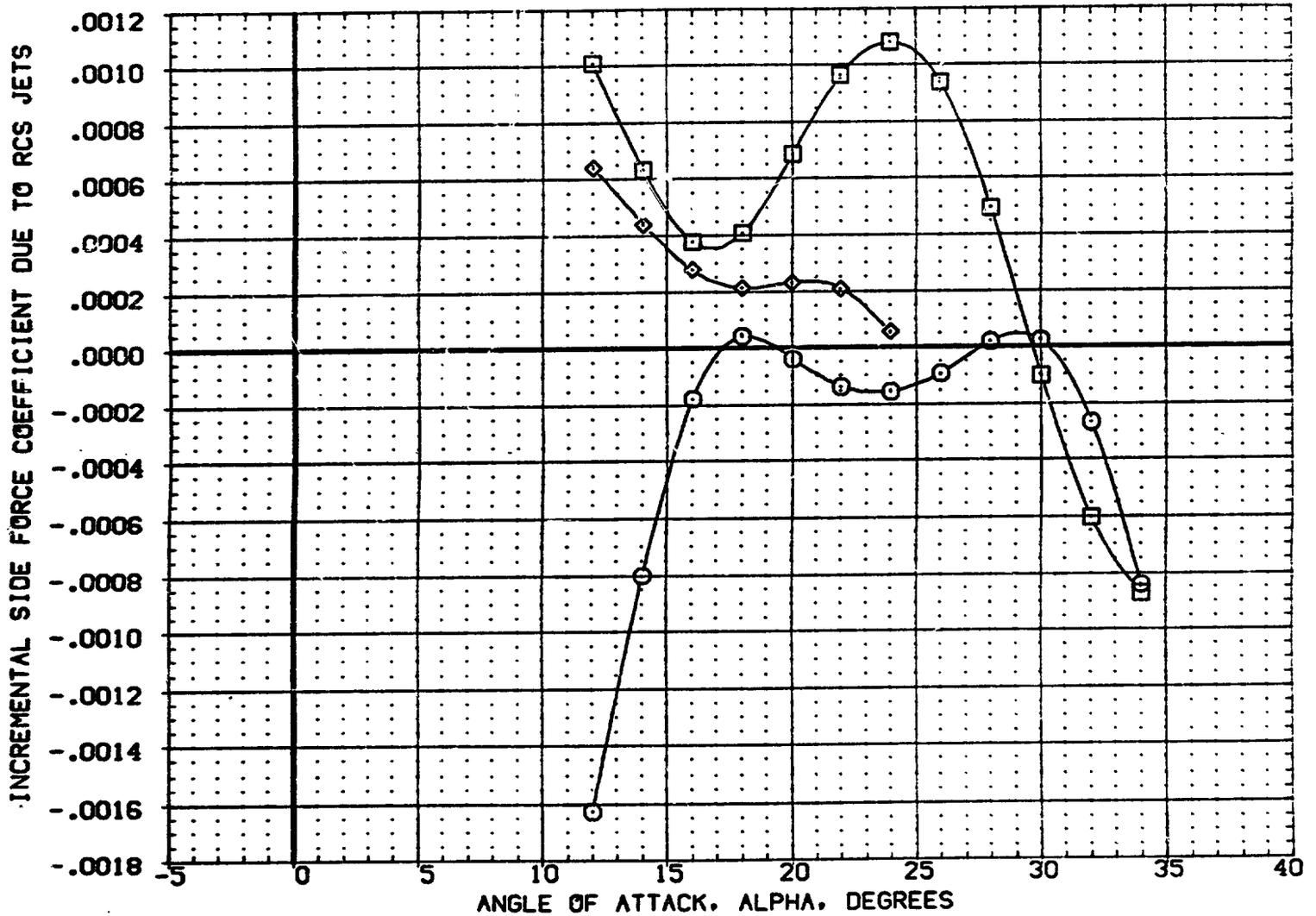
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=4.5)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD45) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	37.000	1.000
(APMD47) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	103.000	3.000
(APMD48) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	178.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



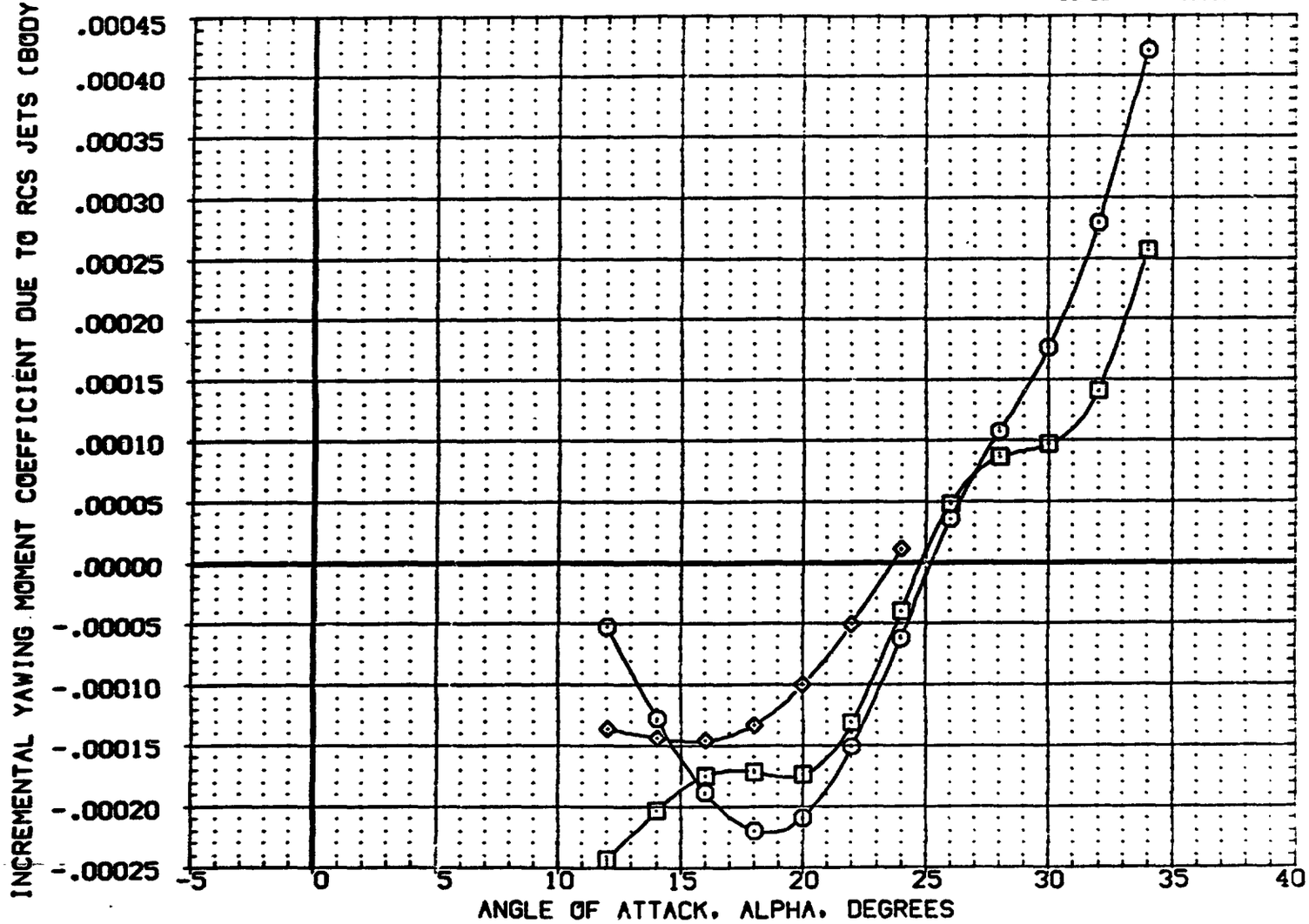
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=4.5)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD45)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	37.000	1.000
(APMD47)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	103.000	3.000
(APMD48)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	178.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



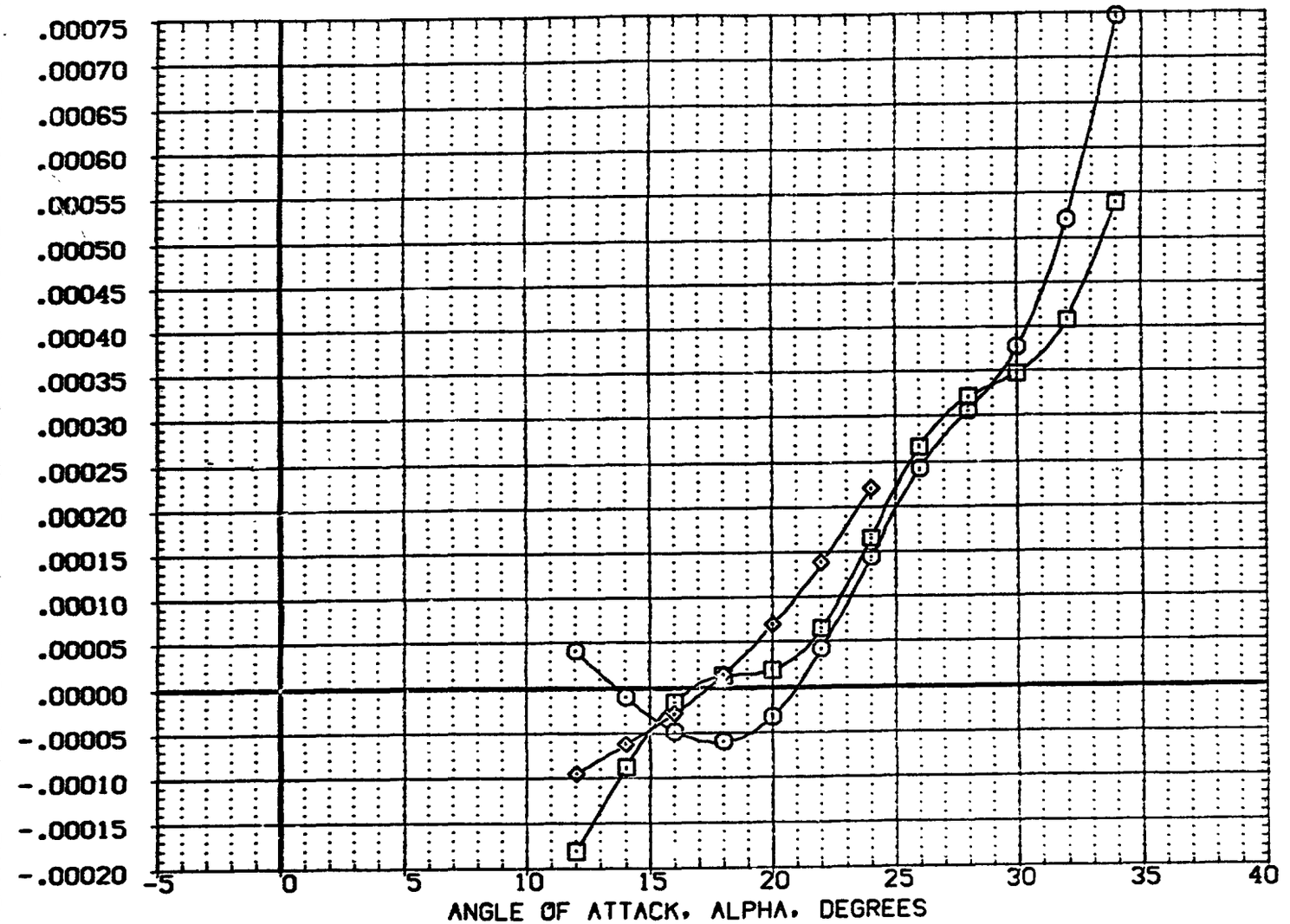
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=4.5)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM045) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	37.000	1.000
(APM047) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	103.000	3.000
(APM048) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	178.000	5.000

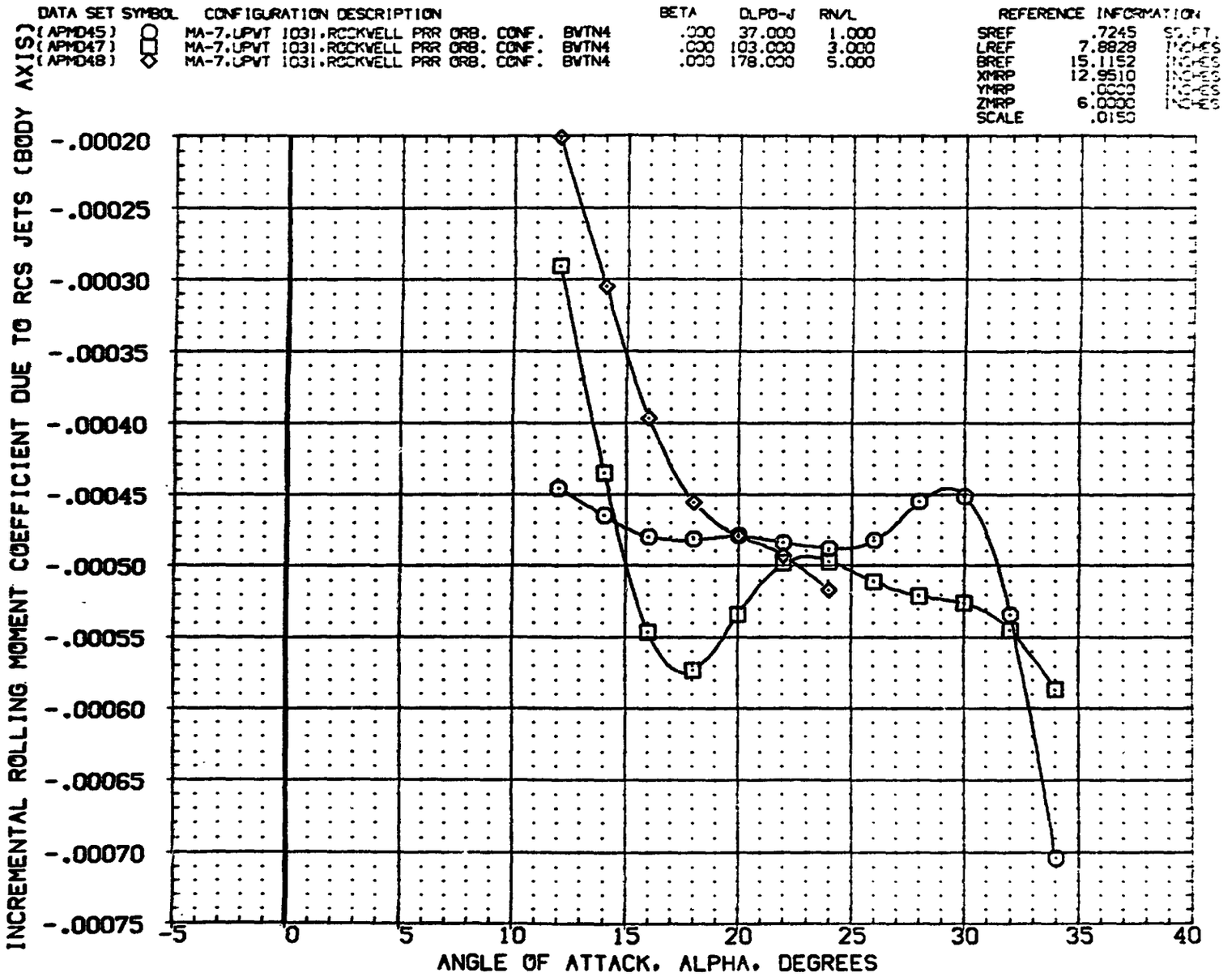
REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=4.5)

(A)MACH = 4.00



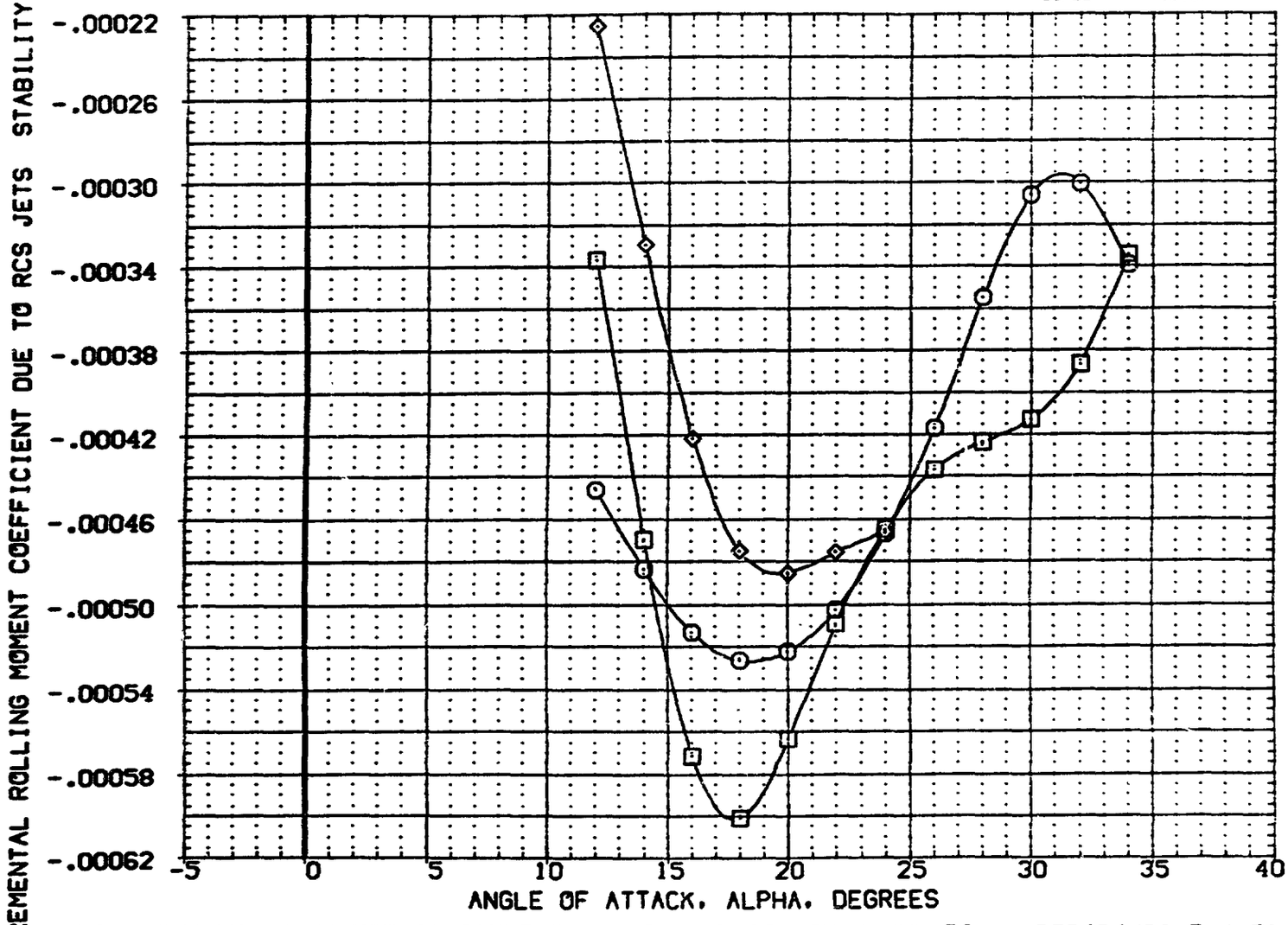
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=4.5)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD45)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	37.000	1.000
(APMD47)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	103.000	3.000
(APMD48)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	178.000	5.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



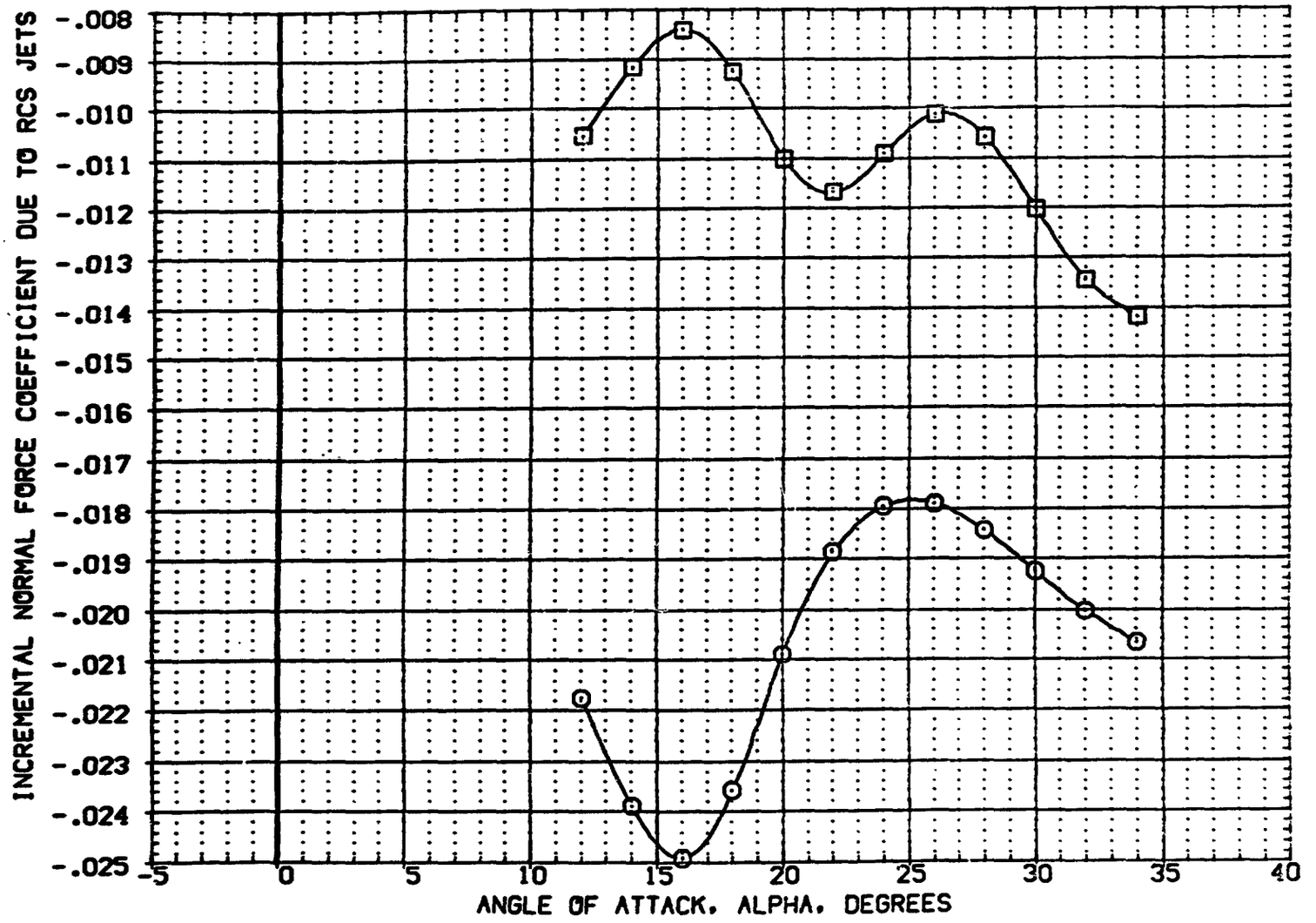
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=4.5)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM049)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	199.000	1.000
(APM053)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	559.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



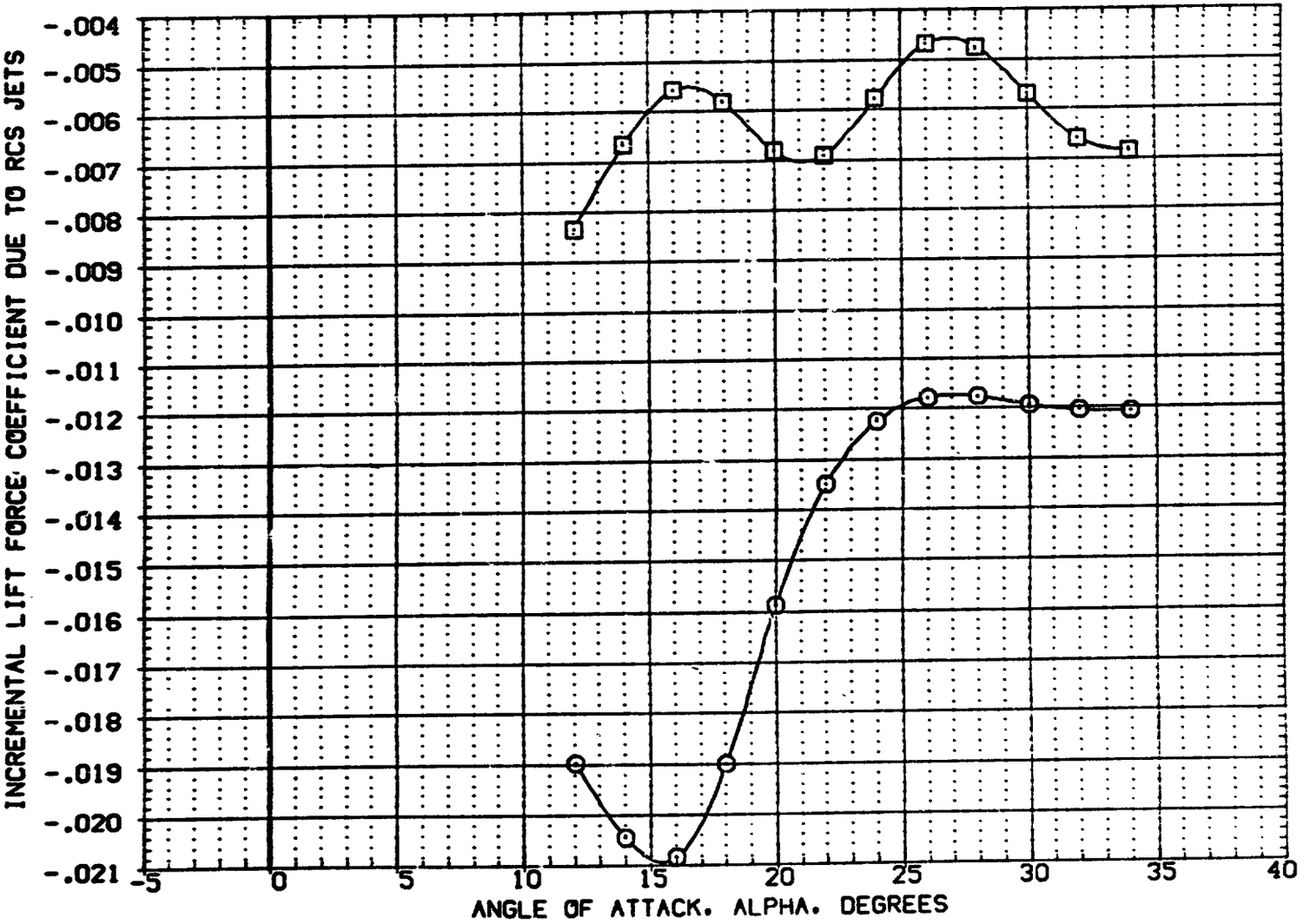
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=25)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM049) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	GVTN4	.000	199.000	1.000
(APM053) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	559.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



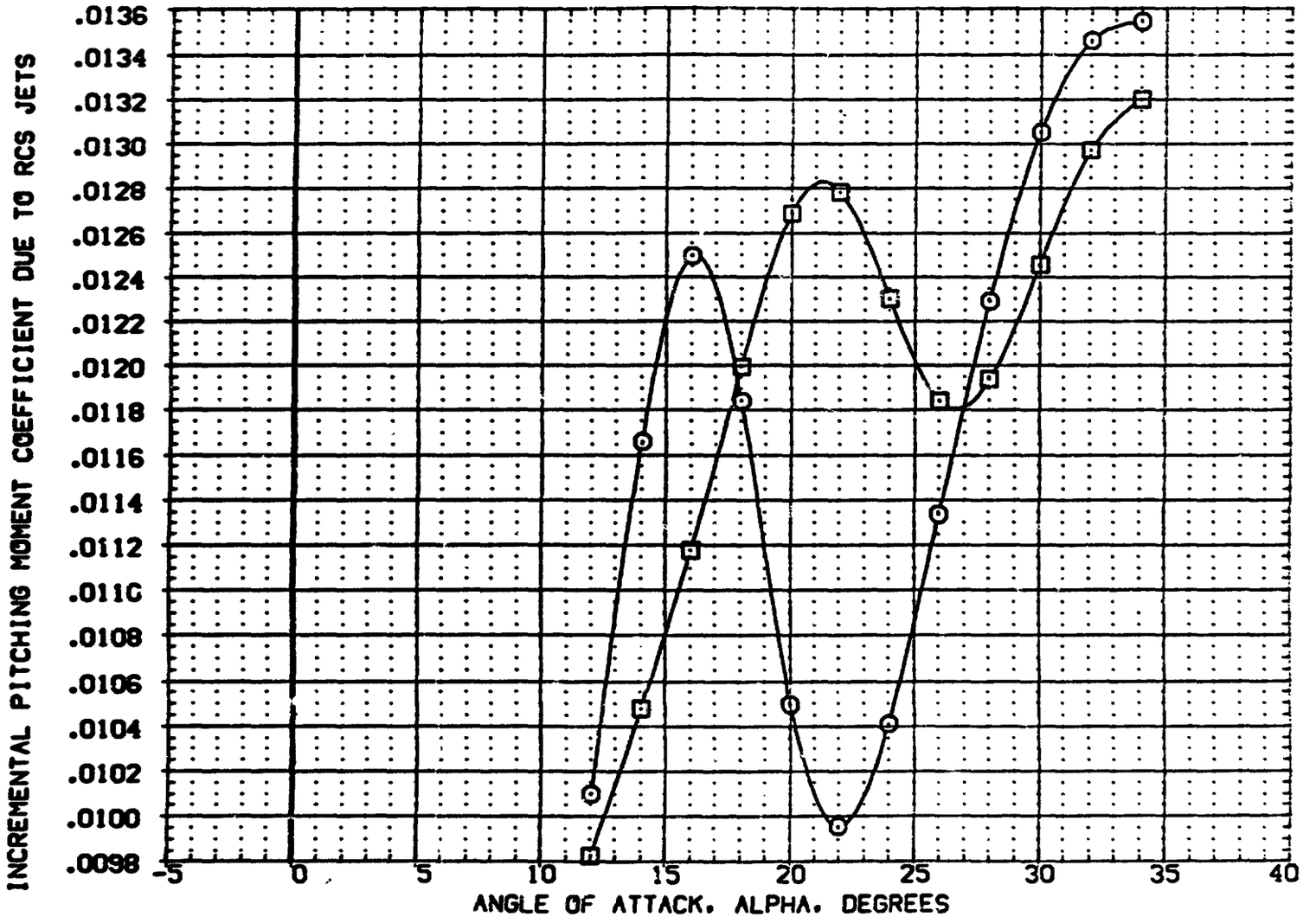
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=25)

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APH049)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	199.000	1.000
(APH053)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	559.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



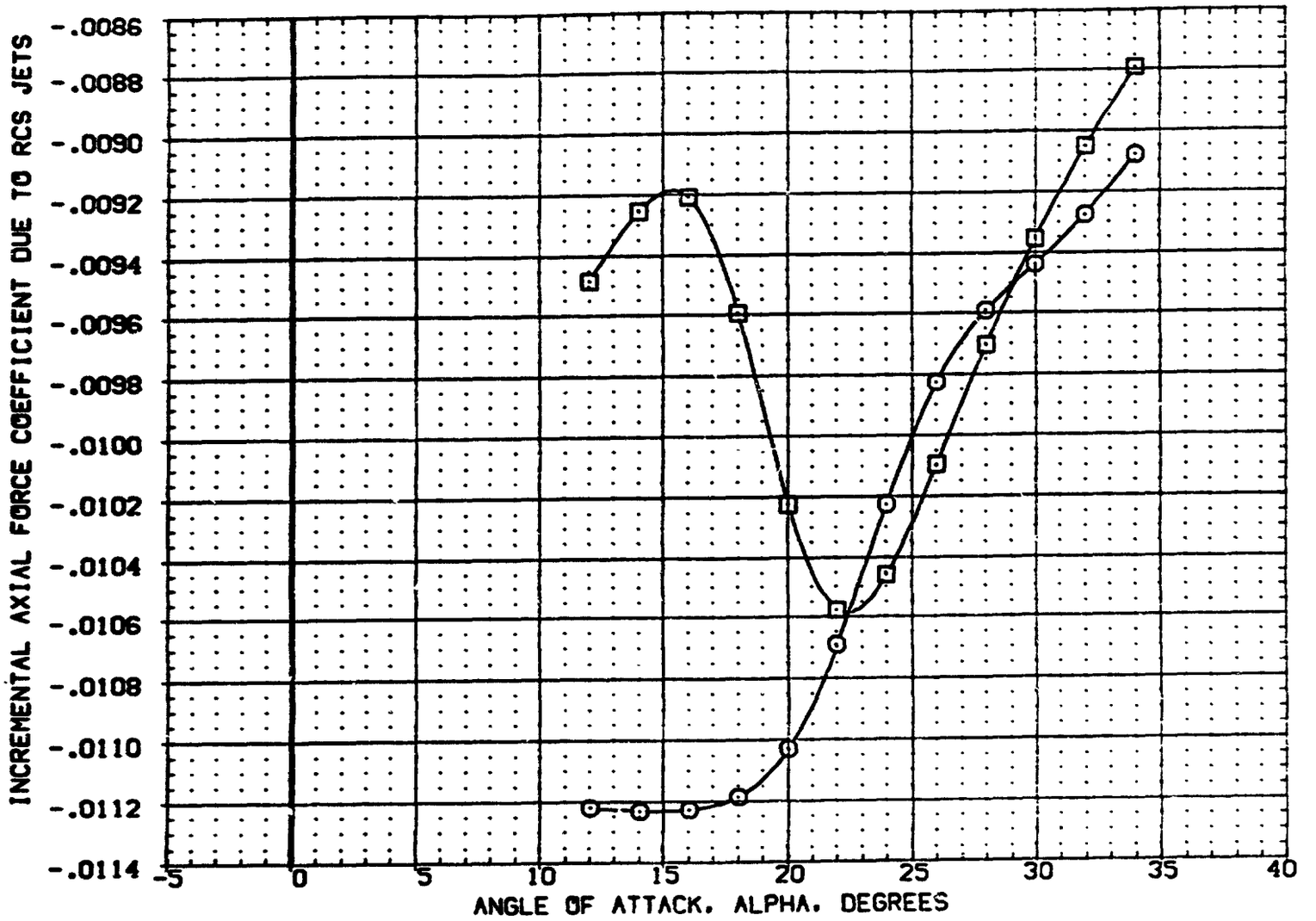
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=25)

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD49)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	199.000	1.000
(APMD53)	□	MA-7.UPVT 1031.ROCKWELL PRR CRC. CONF. BVTN4	.000	559.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



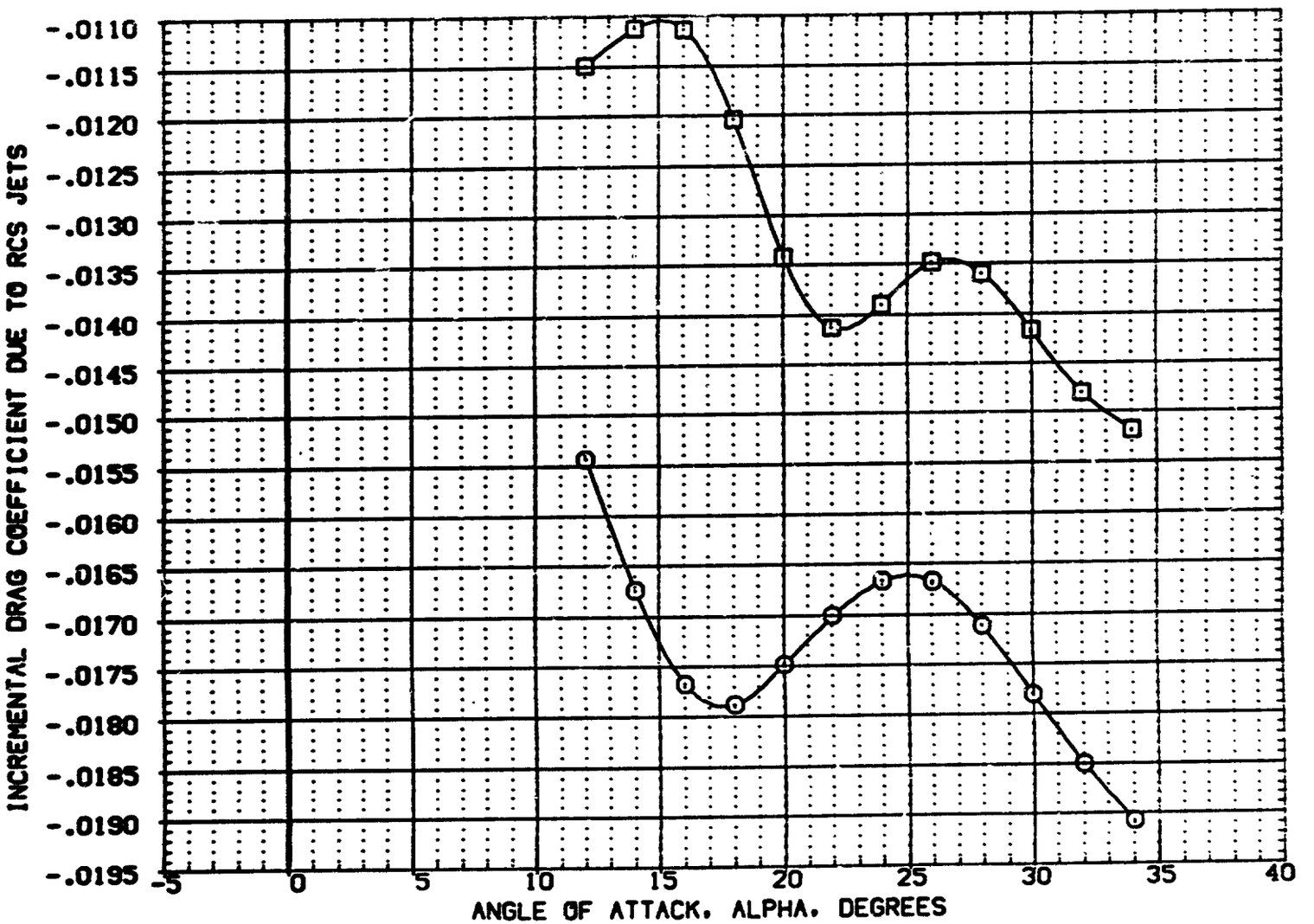
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=25)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APH049)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	199.000	1.000
(APH053)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	.000	559.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.C:50	



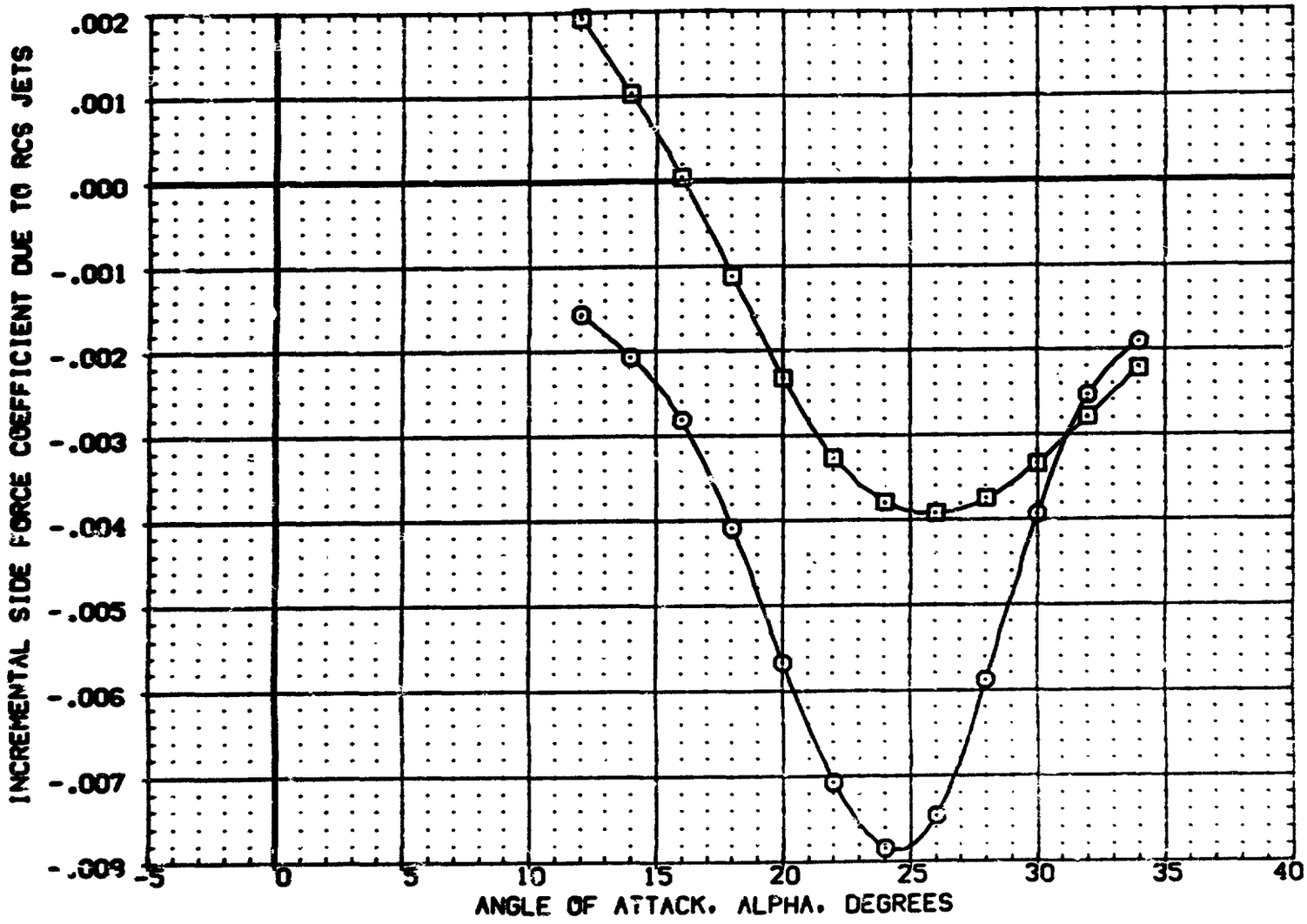
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=25)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD49)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	199.000	1.000
(APMD53)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN4	.000	559.000	3.000

REFERENCE INFORMATION

SREF	.7215	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9515	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



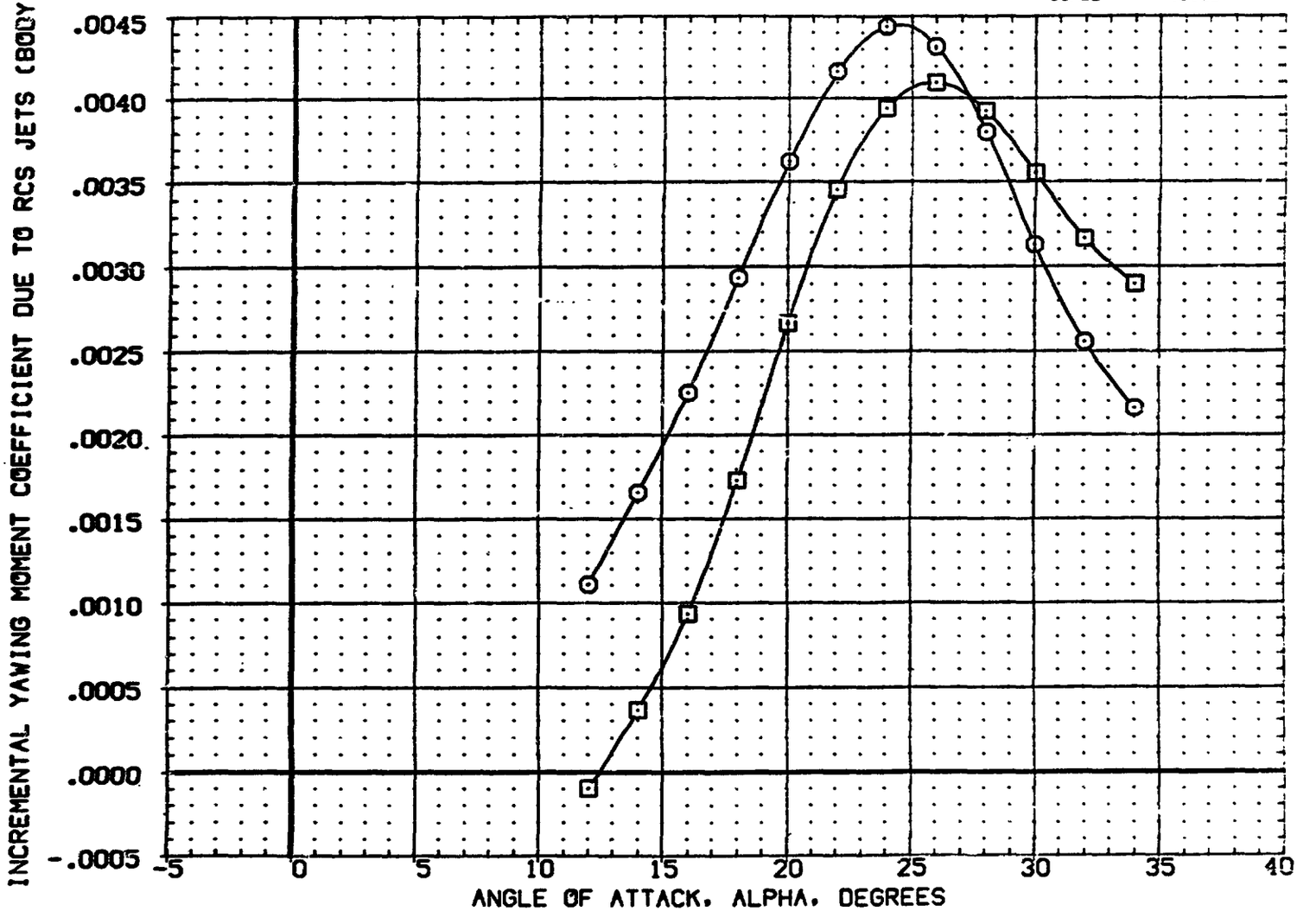
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=25)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM049)	○	MA-7.UPWT 1031.ROCKWELL PRR OF 3. CONF. BVTN4	.000	199.000	1.000
(APM053)	□	MA-7.UPWT 1031.ROCKWELL PRR OF 3. CONF. BVTN4	.000	559.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



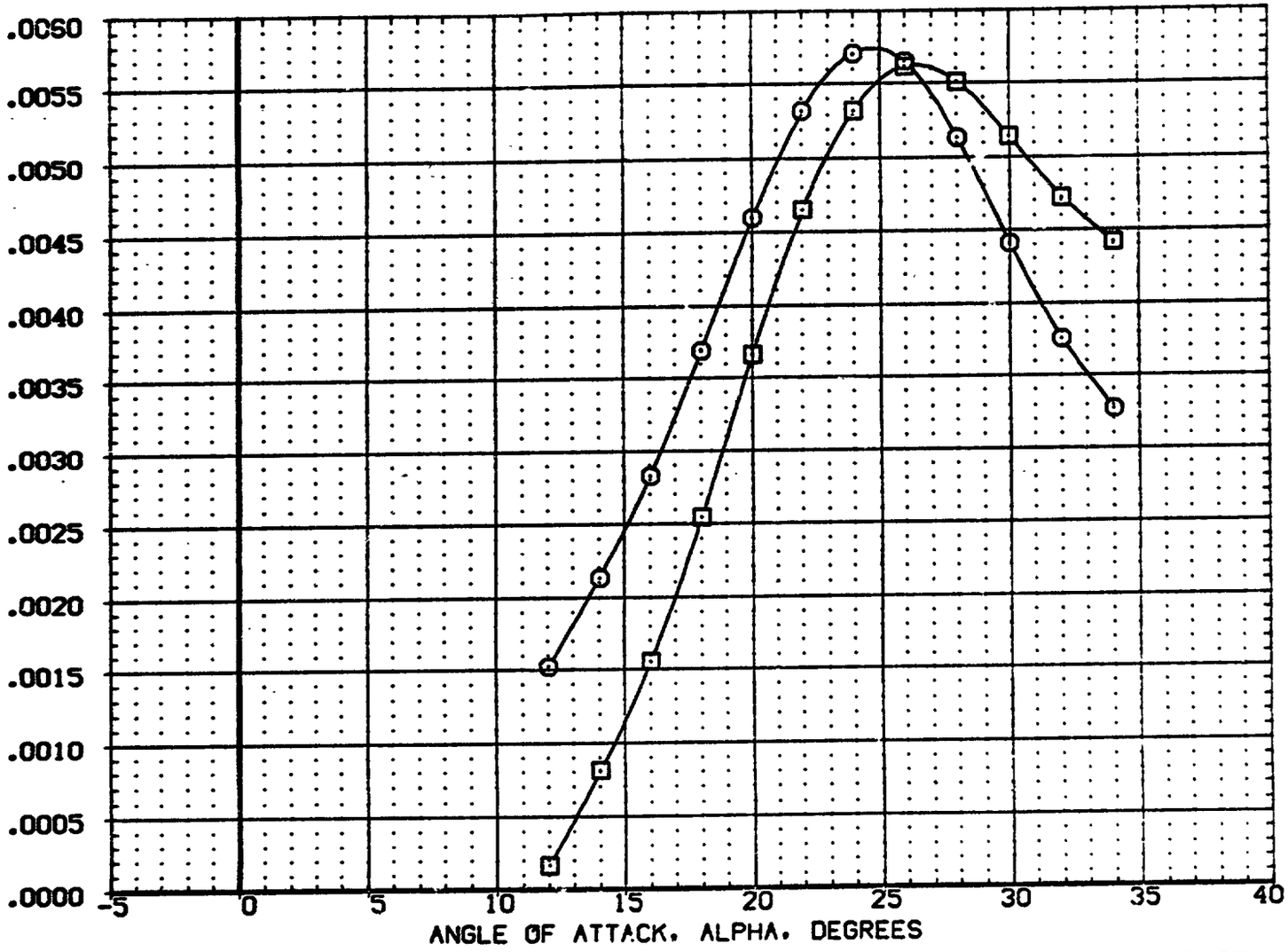
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=25)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM049)	MA-7.UPVT 1031.R .WELL PRR ORB. CONF.	BVTN4	.000	199.000	1.000
(APM053)	MA-7.UPVT 1031. .CKWELL PRR ORB. CONF.	BVTN4	.000	559.000	3.000

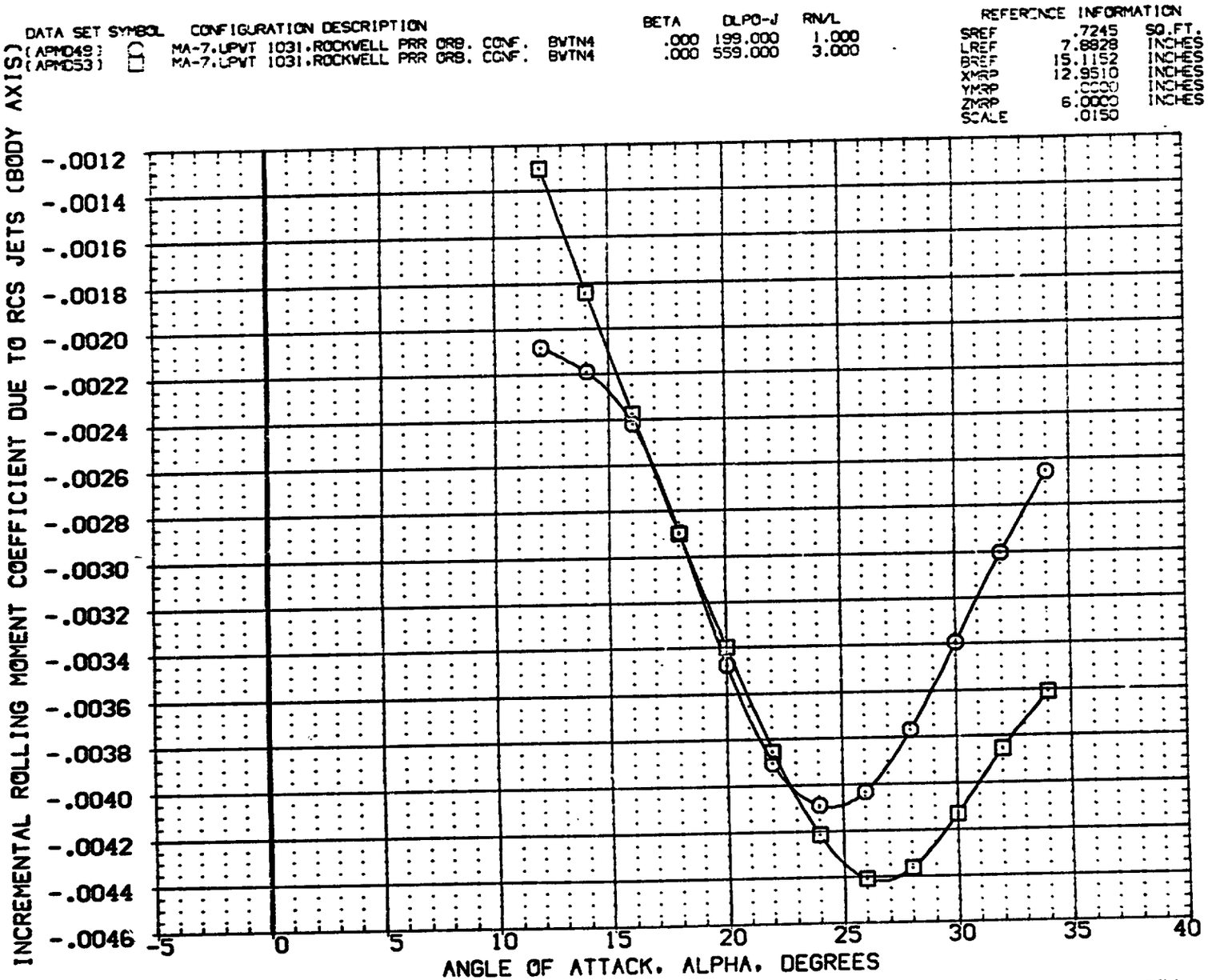
REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8628	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=25)

(A)MACH = 4.00



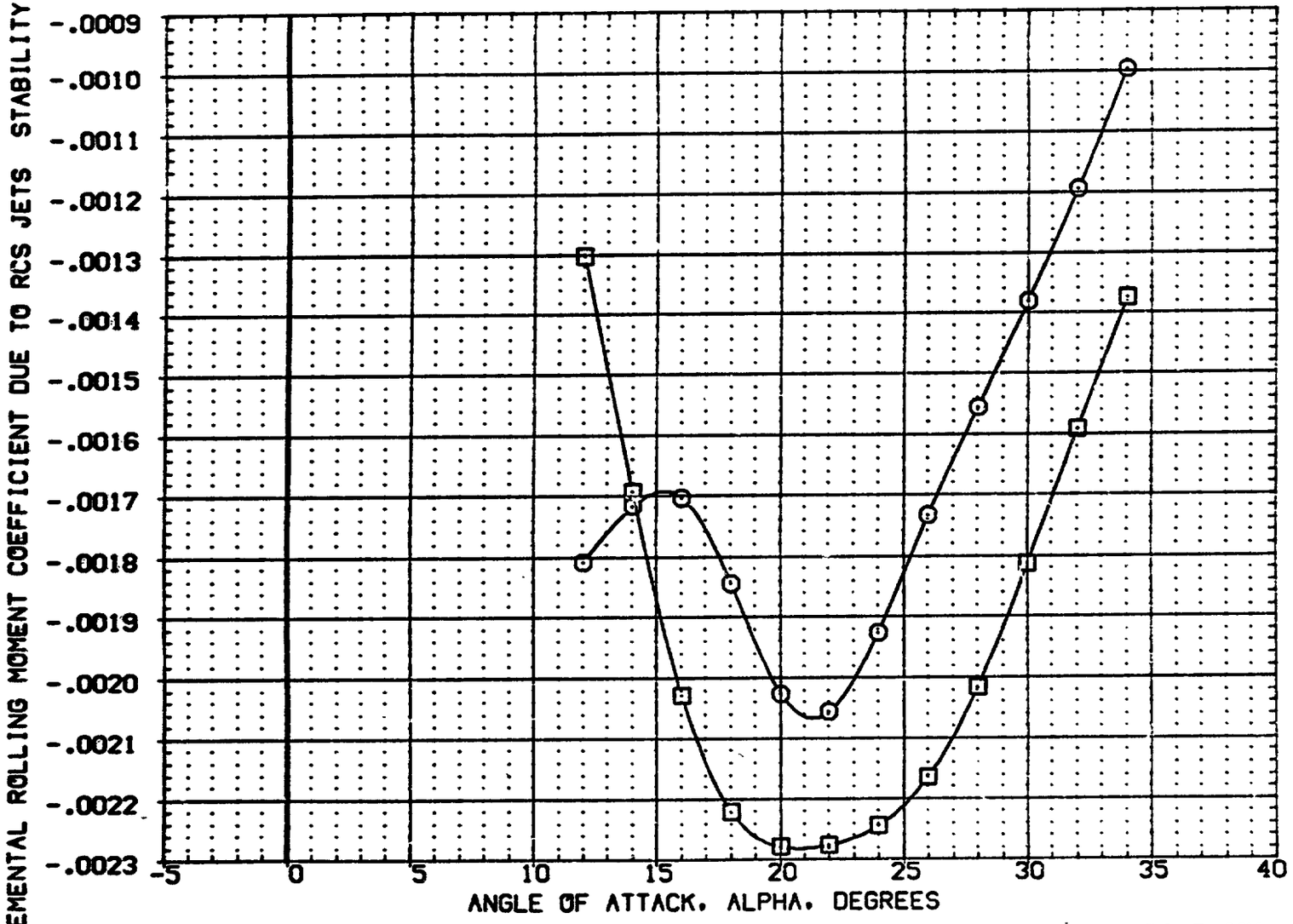
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=25)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM049)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	199.000	1.000
(APM053)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	.000	559.000	3.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.6928	INCHES
BREF	15.1152	INCHES
XMRP	12.9610	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



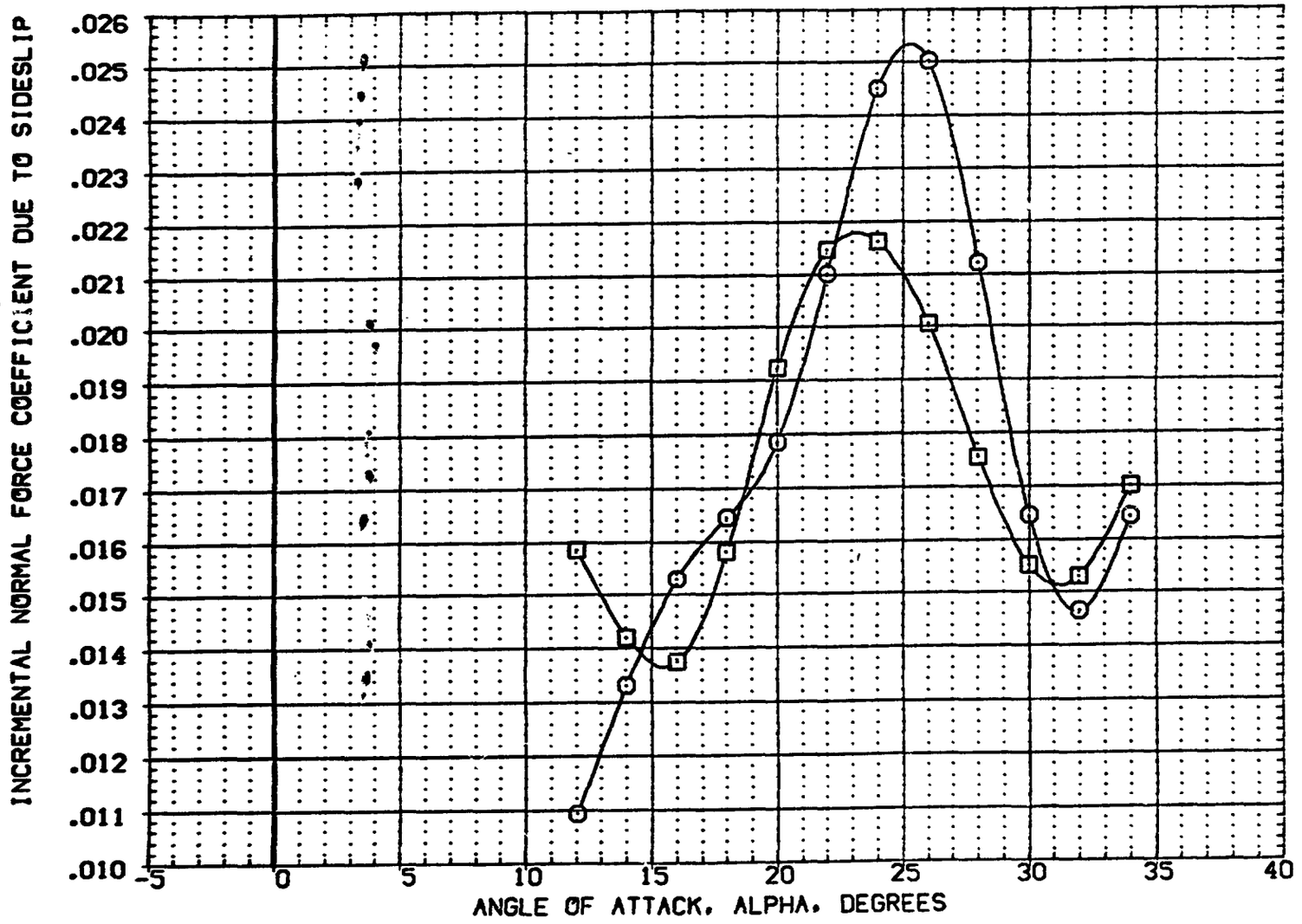
ROLL JET INTERFERENCE (INCREMENTAL DATA) EFFECT OF REYNOLDS NUMBER(PJ/PINF=25)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DLTBTA	PO-JET	RN/L
(APMD41) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	-2.500	.000	1.000
(APMD42) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



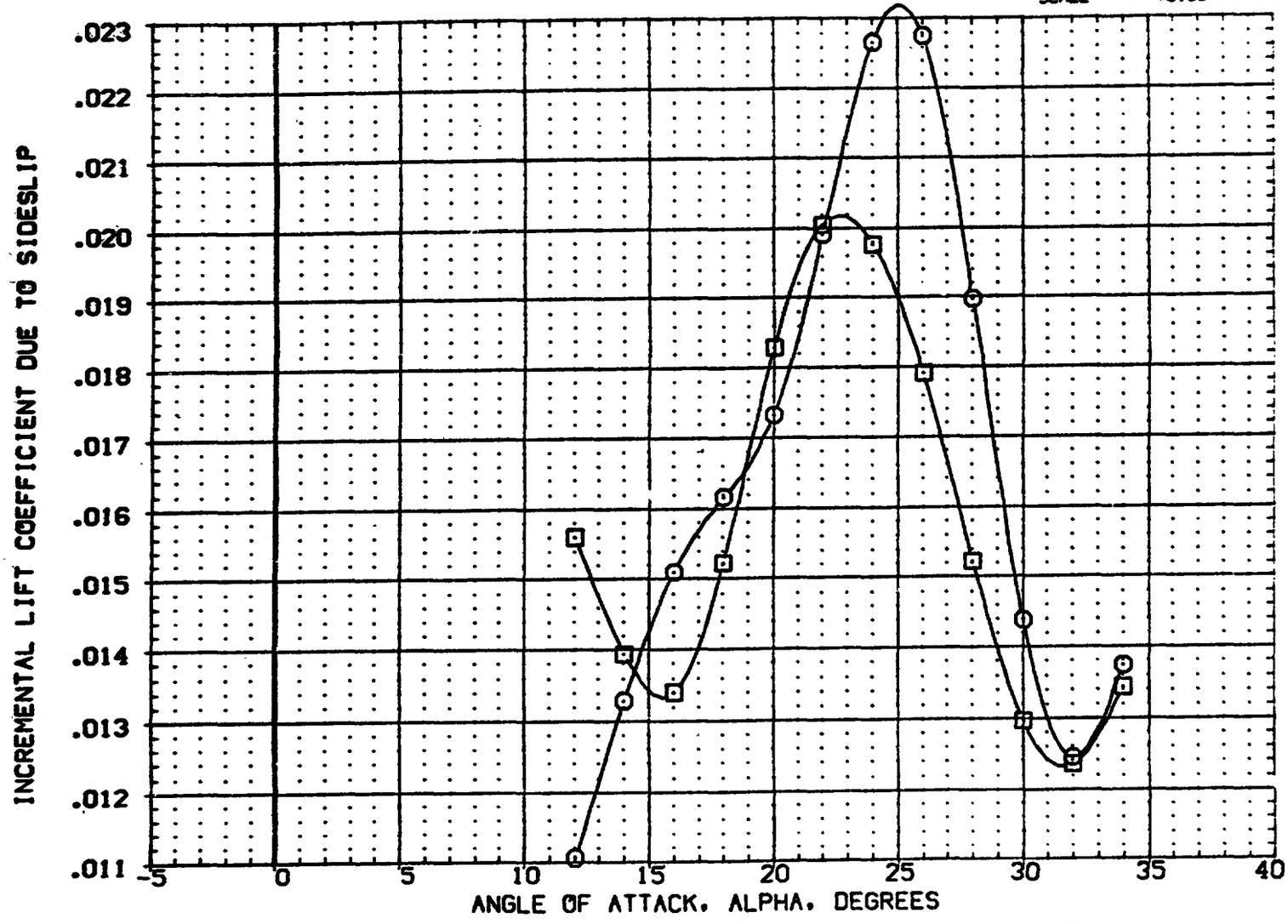
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		DLTBTA	PO-JET	RN/L
(APM041)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	-2.500	.000	1.000
(APM042)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.6928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



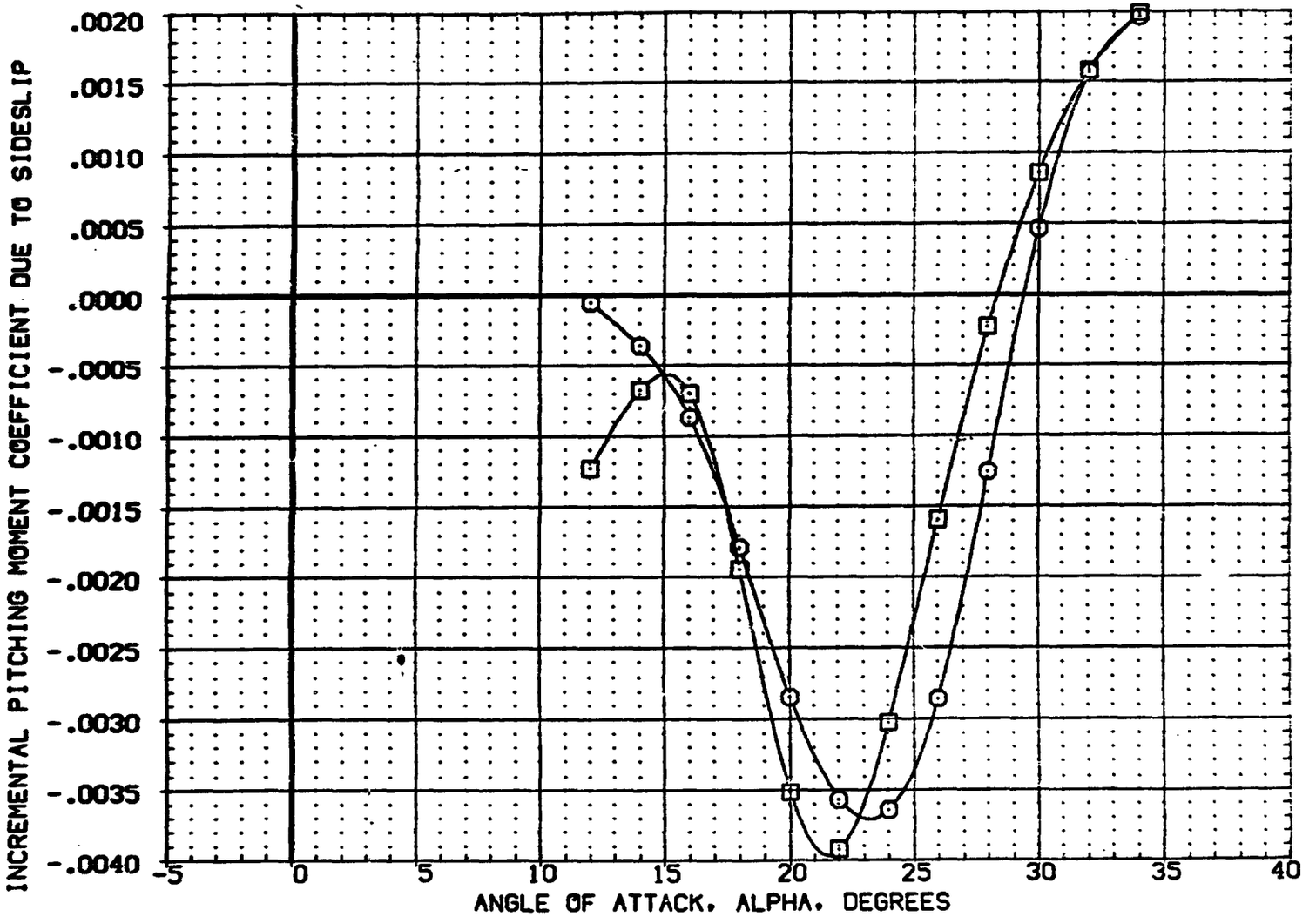
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A) MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DLTBTA	PO-JET	RN/L
(APM041) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	-2.500	.000	1.000
(APM042) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



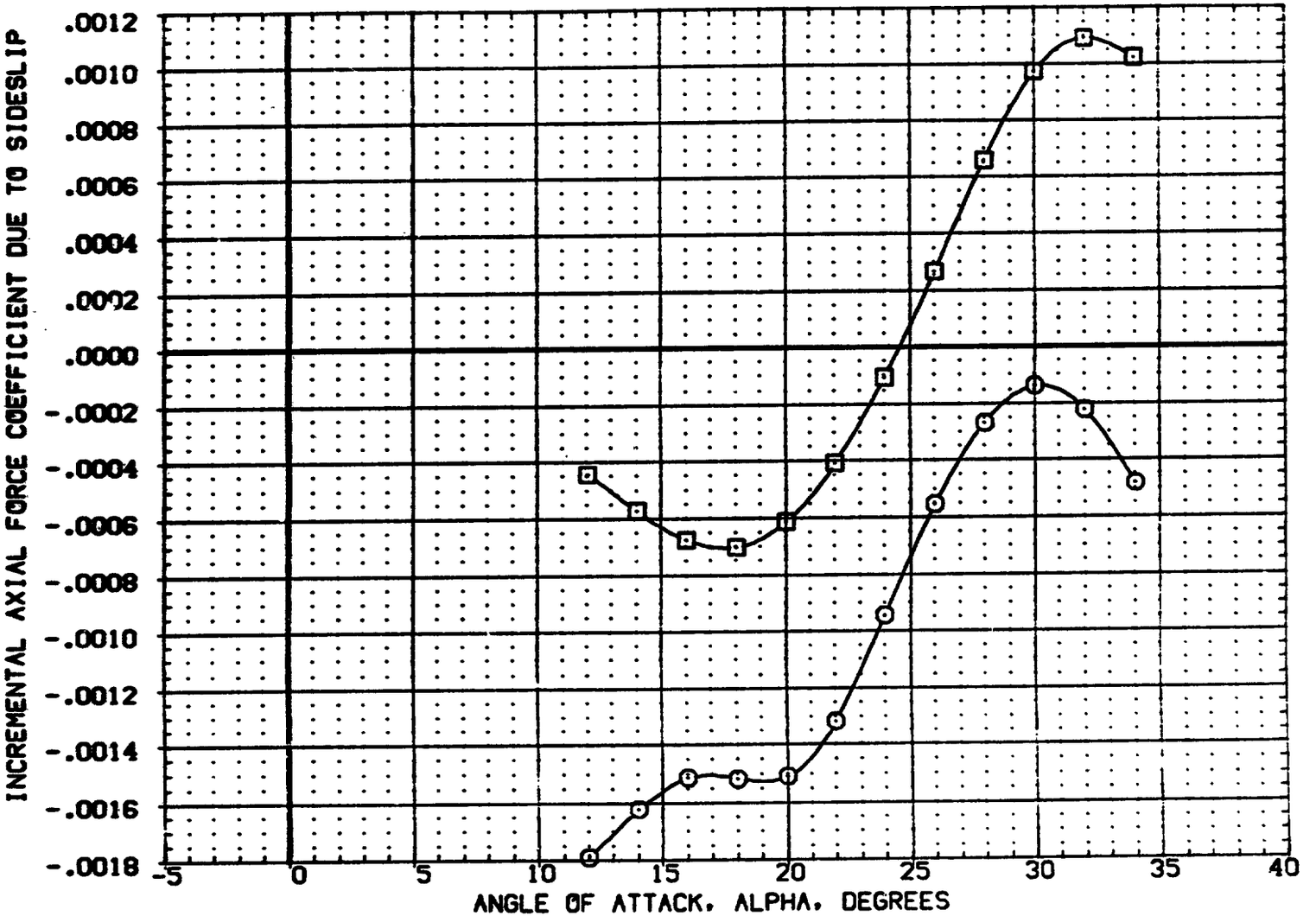
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		DLTBTA	PO-JET	RN/L
(APMD41)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	-2.500	.000	1.000
(APMD42)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMP	12.9510	INCHES
YMP	.0000	INCHES
ZMP	6.0000	INCHES
SCALE	.0150	



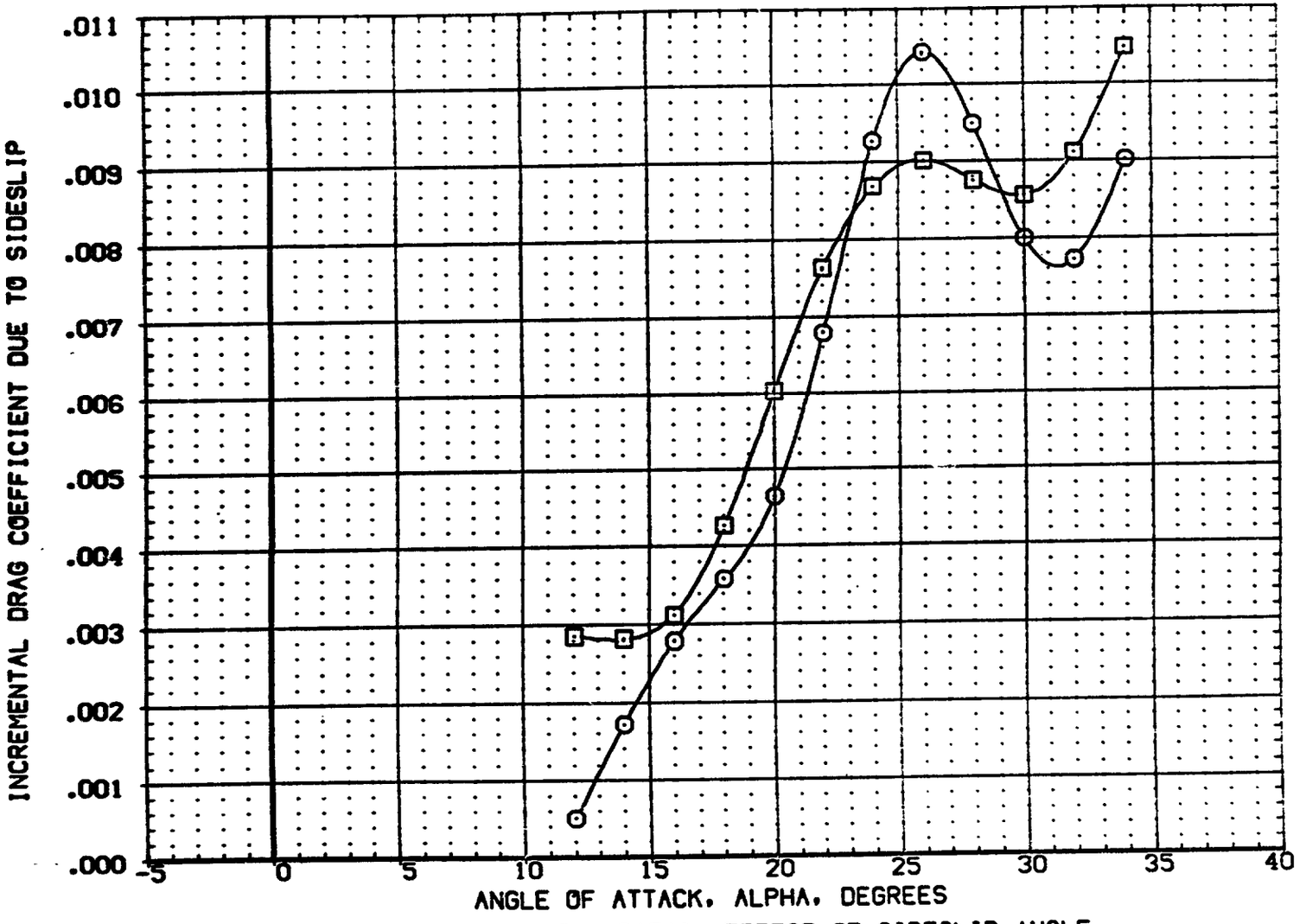
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DLTBTA	PC-JET	RN/L
(APM041) ⊡	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	-2.500	.000	1.000
(APM042) ⊟	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



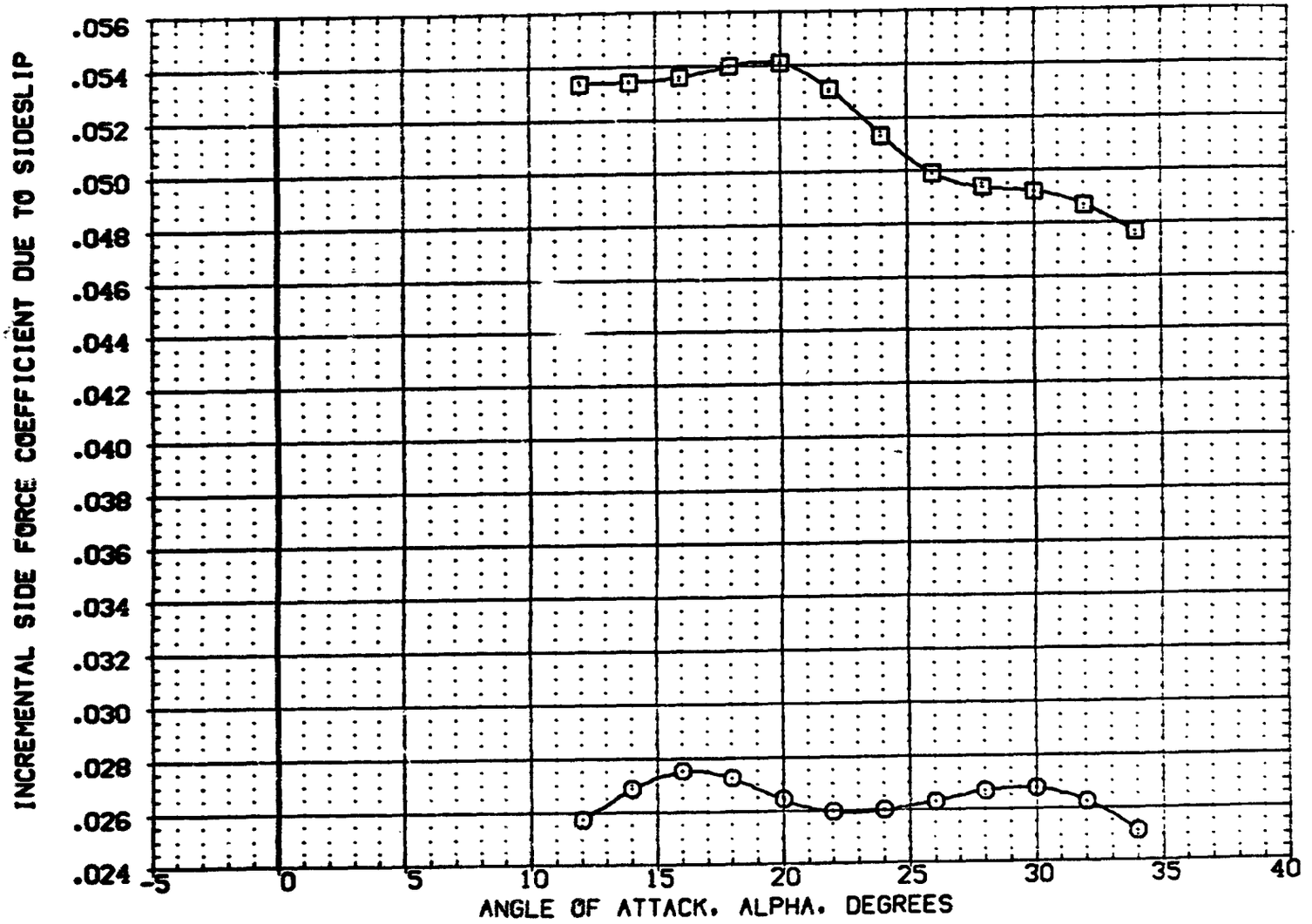
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		DLTBTA	PO-JET	RN/L
(APMD41) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	-2.500	.000	1.000
(APMD42) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN4	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



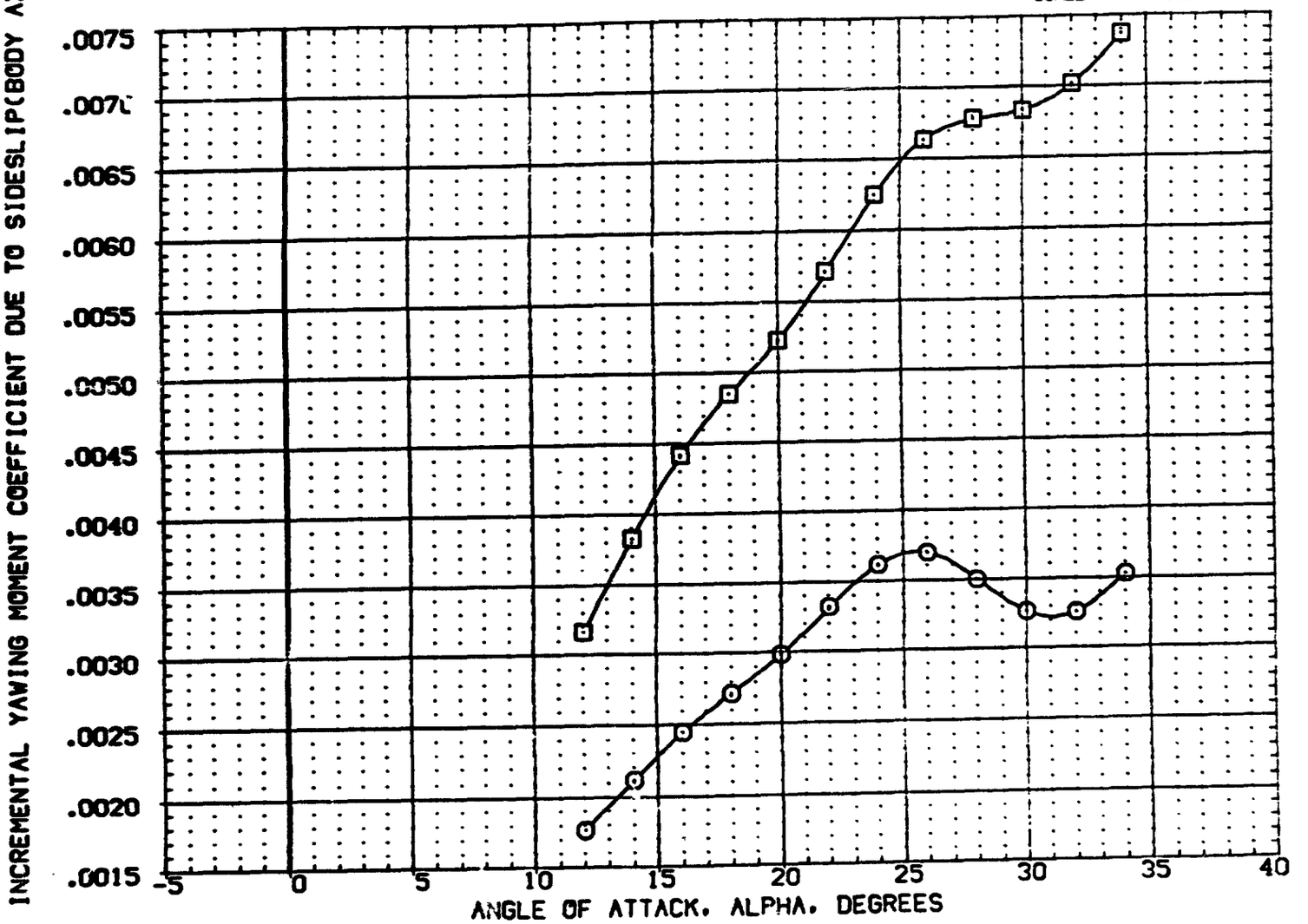
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DLTBTA	PO-JET	RN/L
(APMD41)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	-2.500	.000	1.000
(APMD42)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



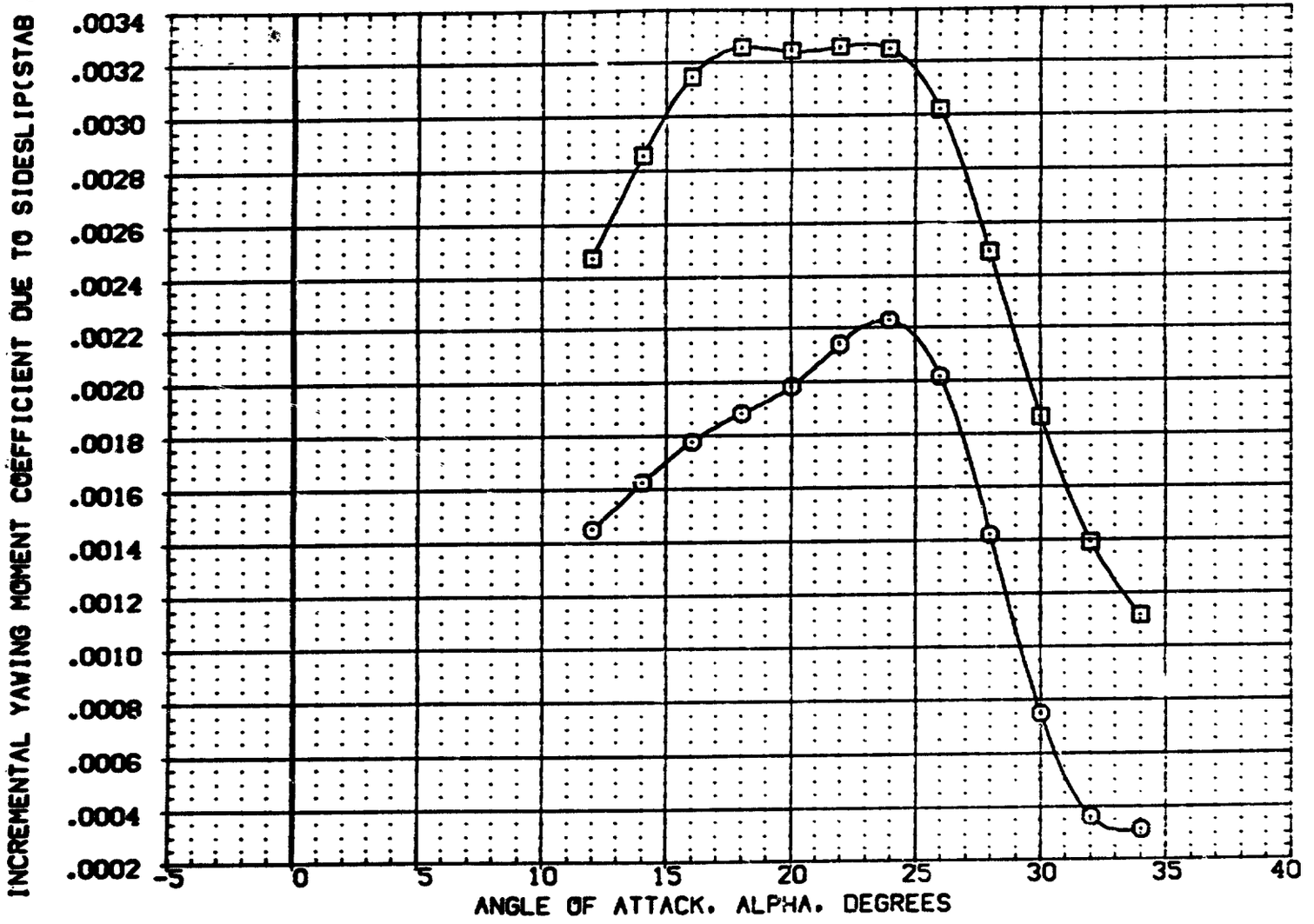
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DLTBTA	PO-JET	RN/L
(APM041)	MA-7.SPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	-2.500	.000	1.000
(APM042)	MA-7.SPVT 1031.ROCKWELL PRR ORB. CONF. BVTN4	-5.000	.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.85[illegible]	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.015[illegible]	



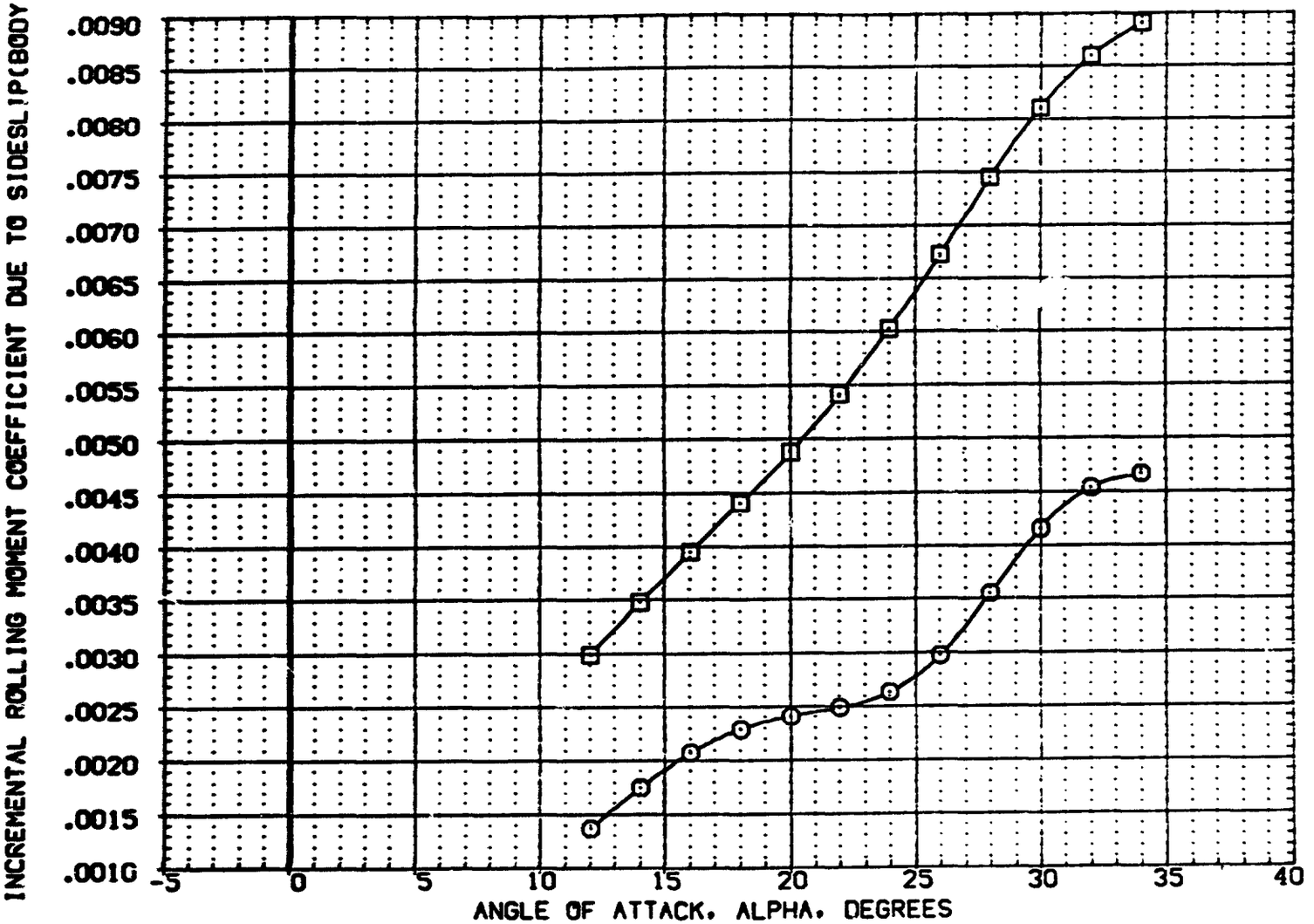
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		DLTBTA	PO-JET	RN/L
(APMD41)	MA-7,UPVT 103\.ROCKWELL PRR CRB. CONF.	BVTN4	-2.500	.000	1.000
(APMD42)	MA-7,UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN4	-5.000	.000	1.000

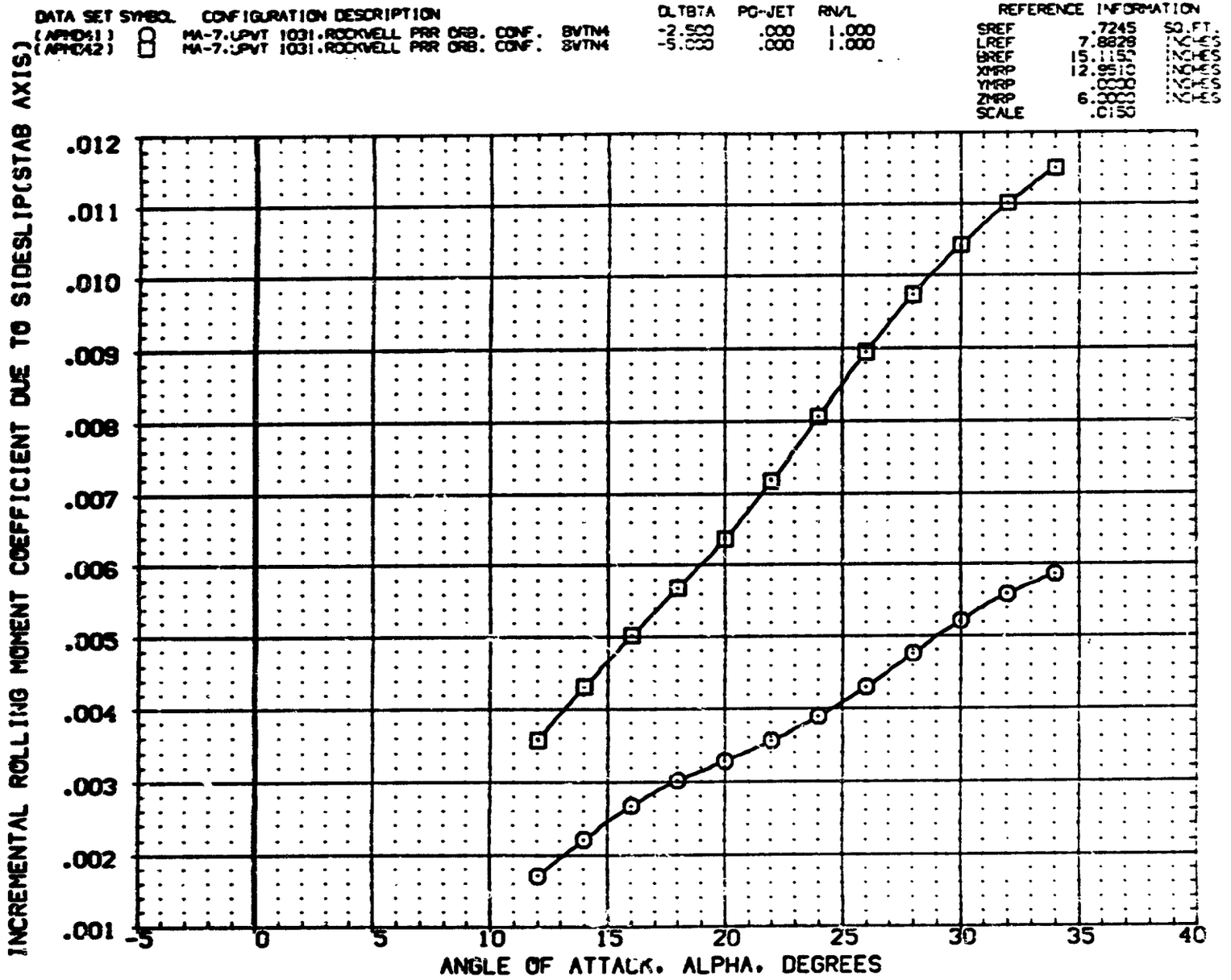
REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00



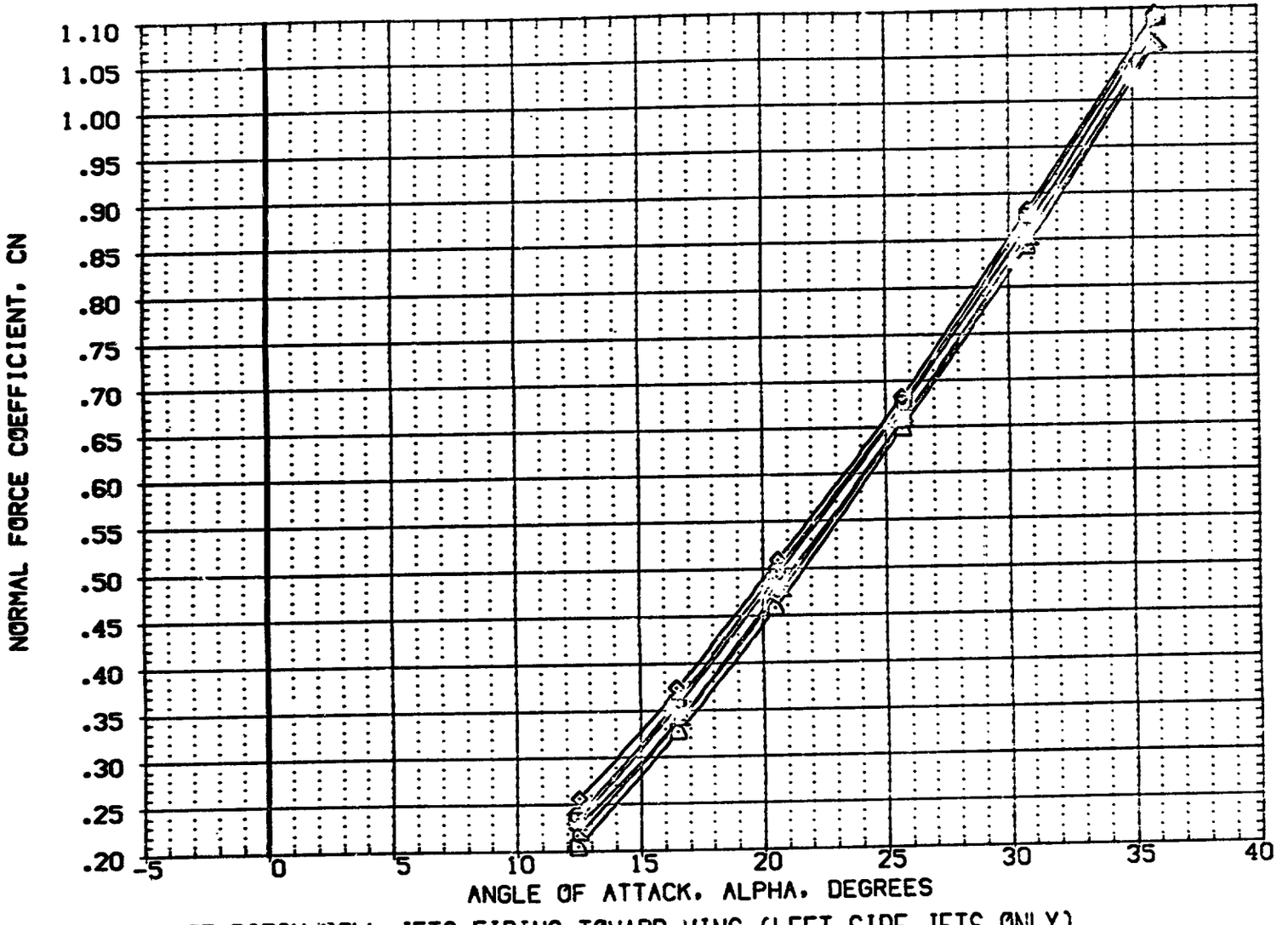
ROLL JET INTERFERENCE (INCREMENTAL DATA), EFFECT OF SIDESLIP ANGLE

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM058)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	.000	1.000
(CPM060)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	37.000	1.000
(CPM061)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	100.000	1.000
(CPM063)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	199.000	1.000
(CPM064)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	328.000	1.000
(CPM066)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



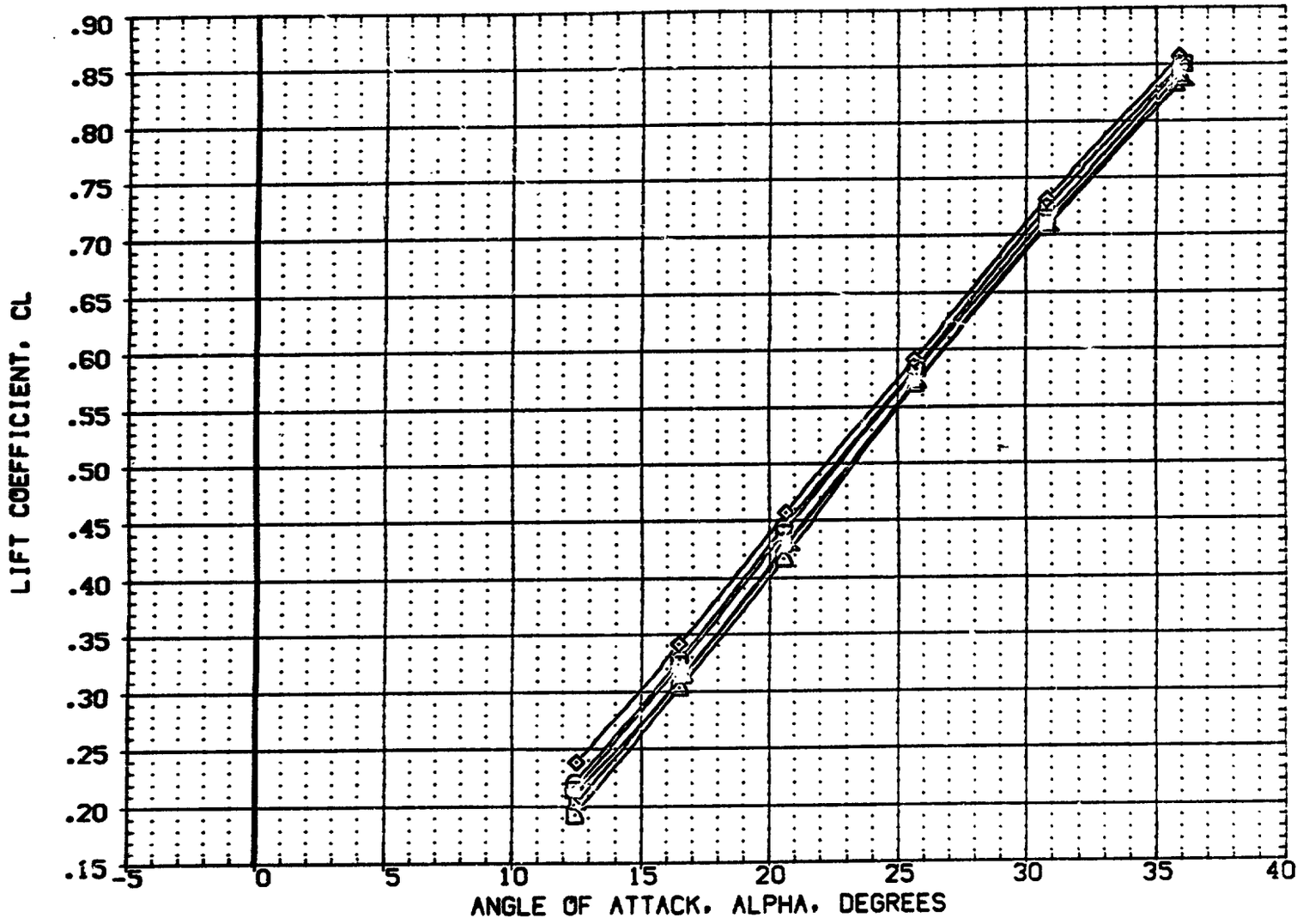
EFFECT OF PITCH/ROLL JETS FIRING TOWARD WING (LEFT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM058)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN40	.000	.000	1.000
(CPM060)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN40	.000	37.000	1.000
(CPM061)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN40	.000	100.000	1.000
(CPM063)	◁	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN40	.000	199.000	1.000
(CPM064)	▷	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN40	.000	328.000	1.000
(CPM066)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN40	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

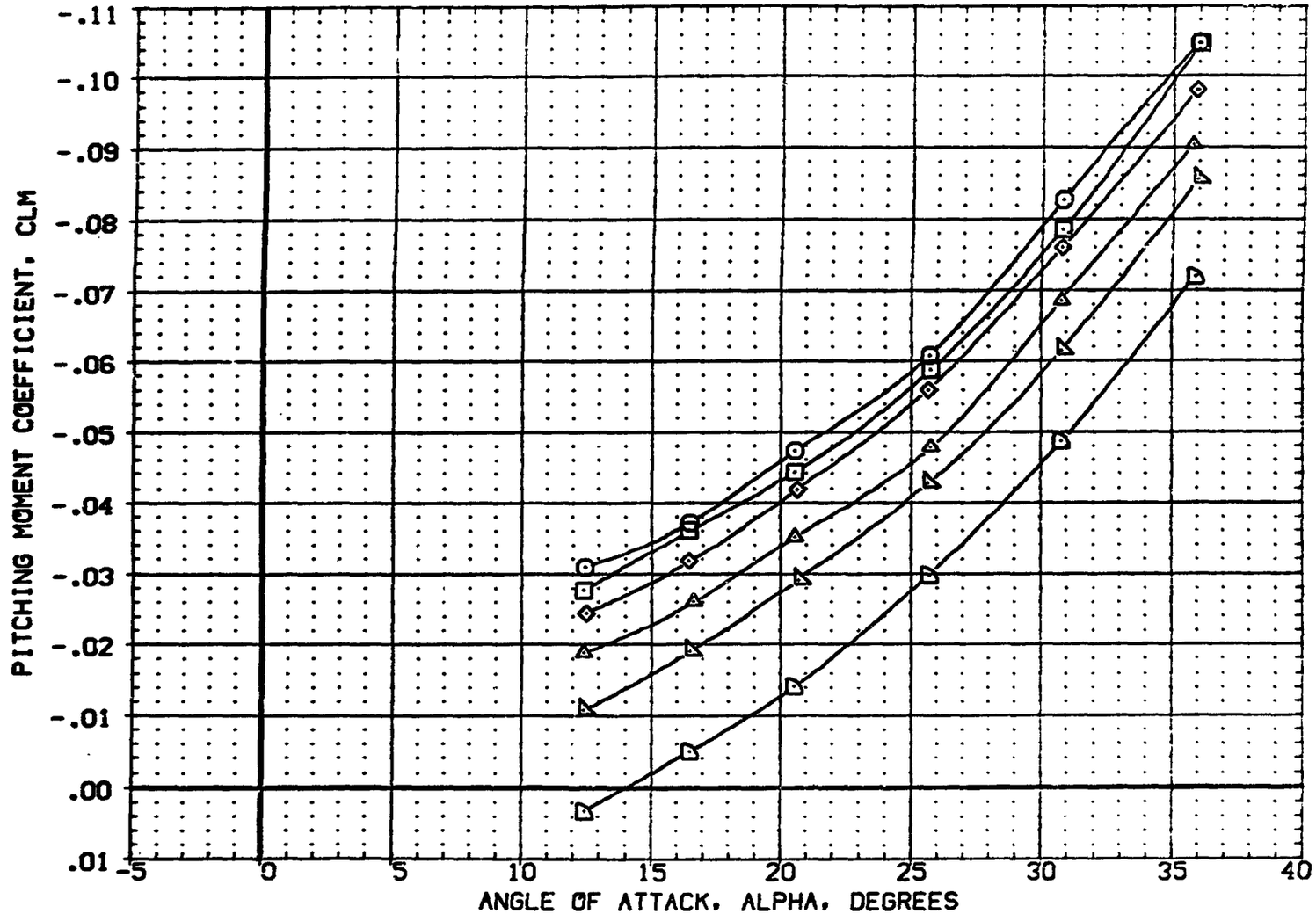


EFFECT OF PITCH/ROLL JETS FIRING TOWARD WING (LEFT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM058)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	.000	1.000
(CPM060)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	37.000	1.000
(CPM061)	⋈	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	100.000	1.000
(CPM063)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	199.000	1.000
(CPM064)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	328.000	1.000
(CPM066)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



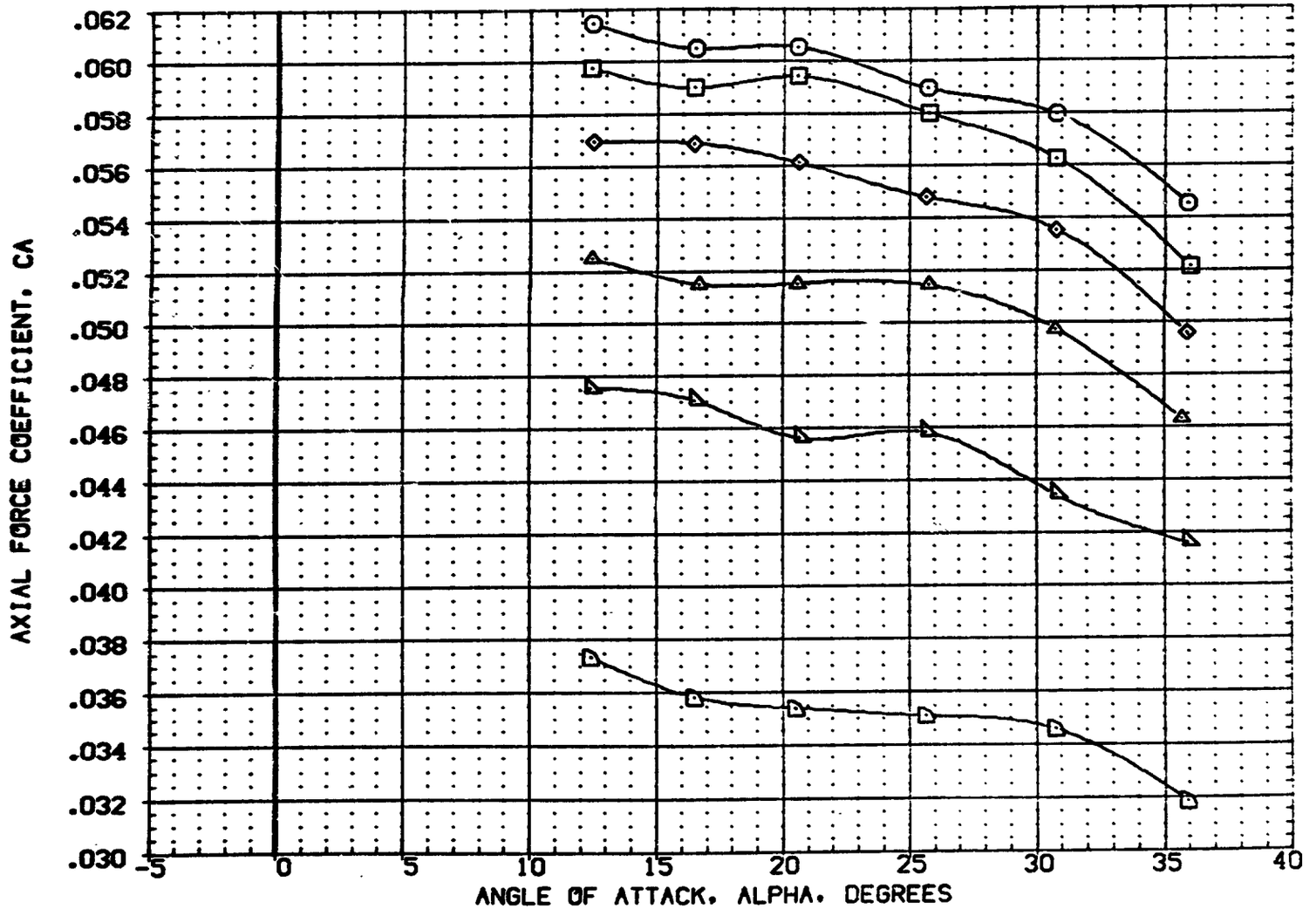
EFFECT OF PITCH/ROLL JETS FIRING TOWARD WING (LEFT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM058) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	.000	1.000
(CPM060) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	37.000	1.000
(CPM061) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	100.000	1.000
(CPM063) △	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	199.000	1.000
(CPM064) ▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	328.000	1.000
(CPM066) D	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

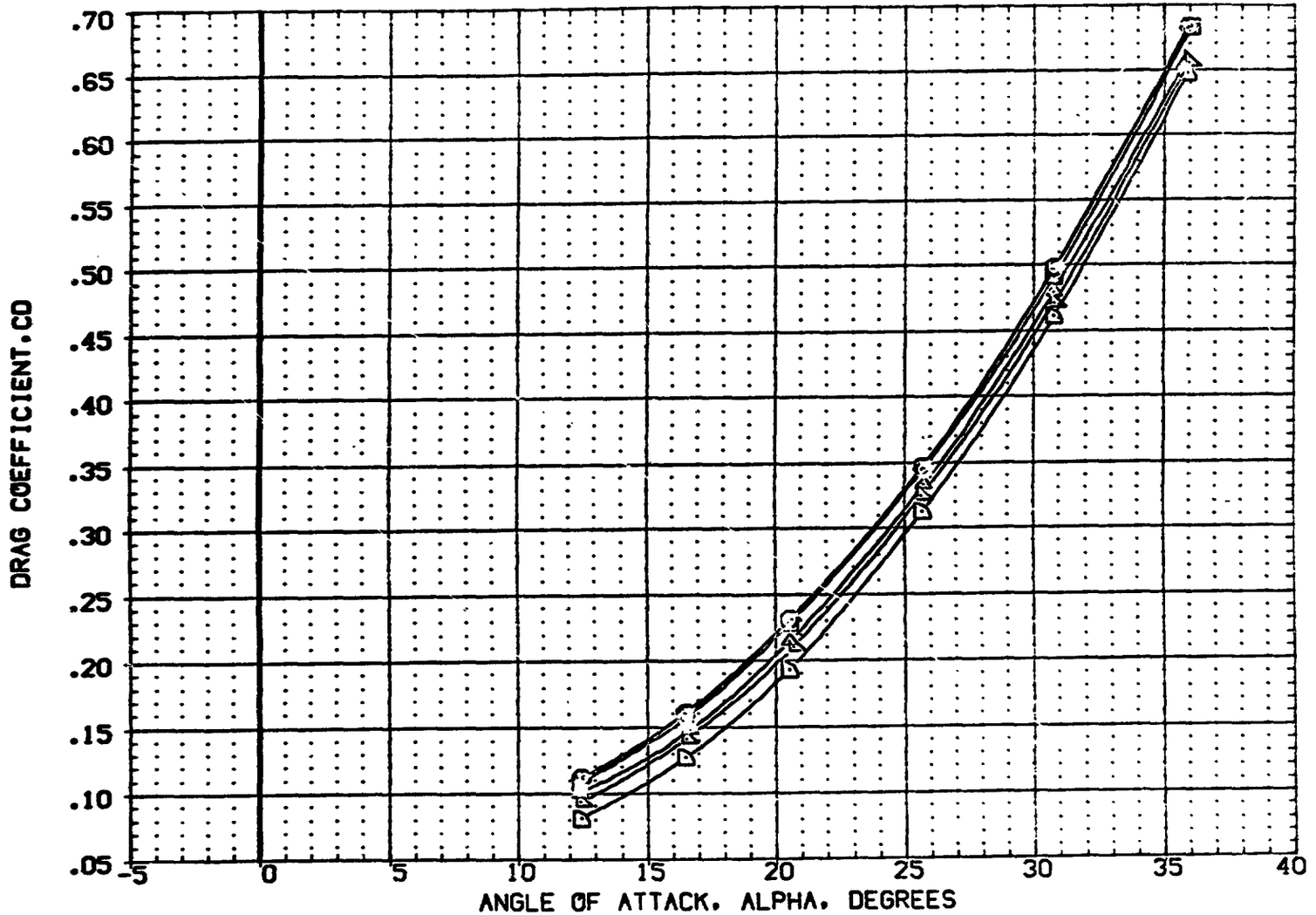


EFFECT OF PITCH/ROLL JETS FIRING TOWARD WING (LEFT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM058)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	.000	1.000
(CPM060)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	37.000	1.000
(CPM061)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	100.000	1.000
(CPM063)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	199.000	1.000
(CPM064)	▽	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	328.000	1.000
(CPM066)	▷	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

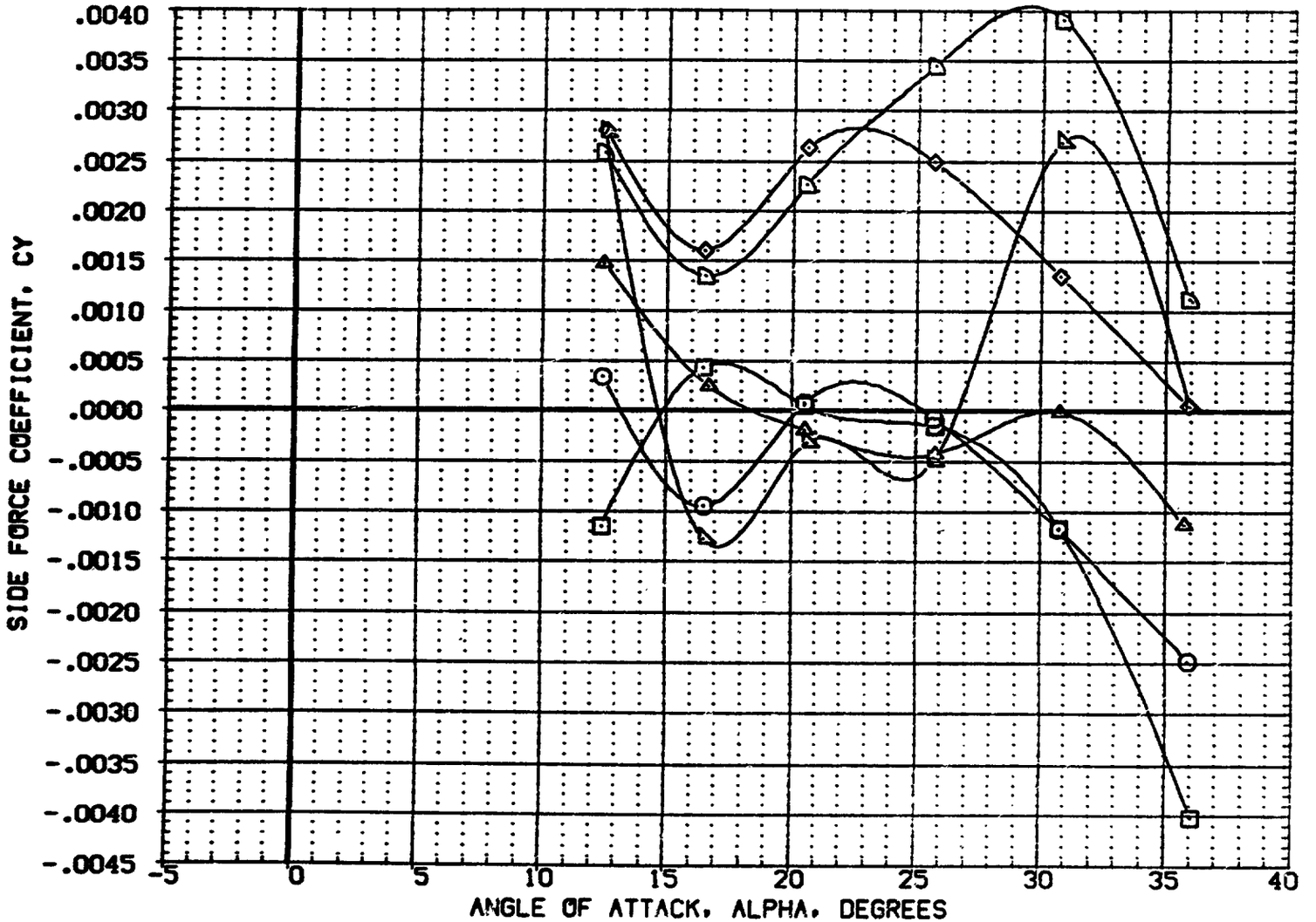


EFFECT OF PITCH/ROLL JETS FIRING TOWARD WING (LEFT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM058)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN40	.000	.000	1.000
(CPM060)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN40	.000	37.000	1.000
(CPM061)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN40	.000	100.000	1.000
(CPM063)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN40	.000	199.000	1.000
(CPM064)	▽	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN40	.000	328.000	1.000
(CPM066)	▷	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

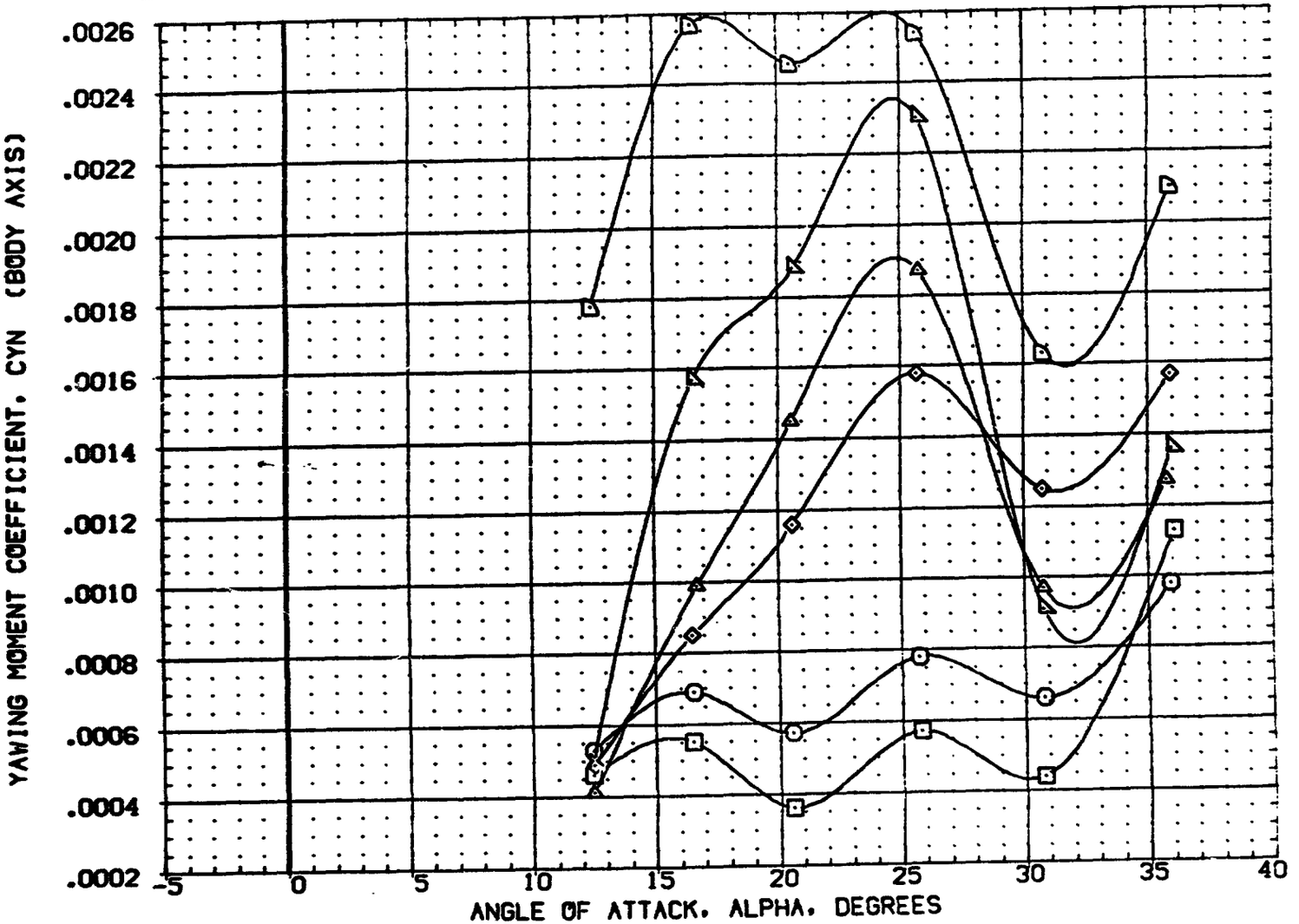


EFFECT OF PITCH/ROLL JETS FIRING TOWARD WING (LEFT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM058)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	.000	1.000
(CPM060)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	37.000	1.000
(CPM061)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	100.000	1.000
(CPM063)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	199.000	1.000
(CPM064)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	328.000	1.000
(CPM066)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



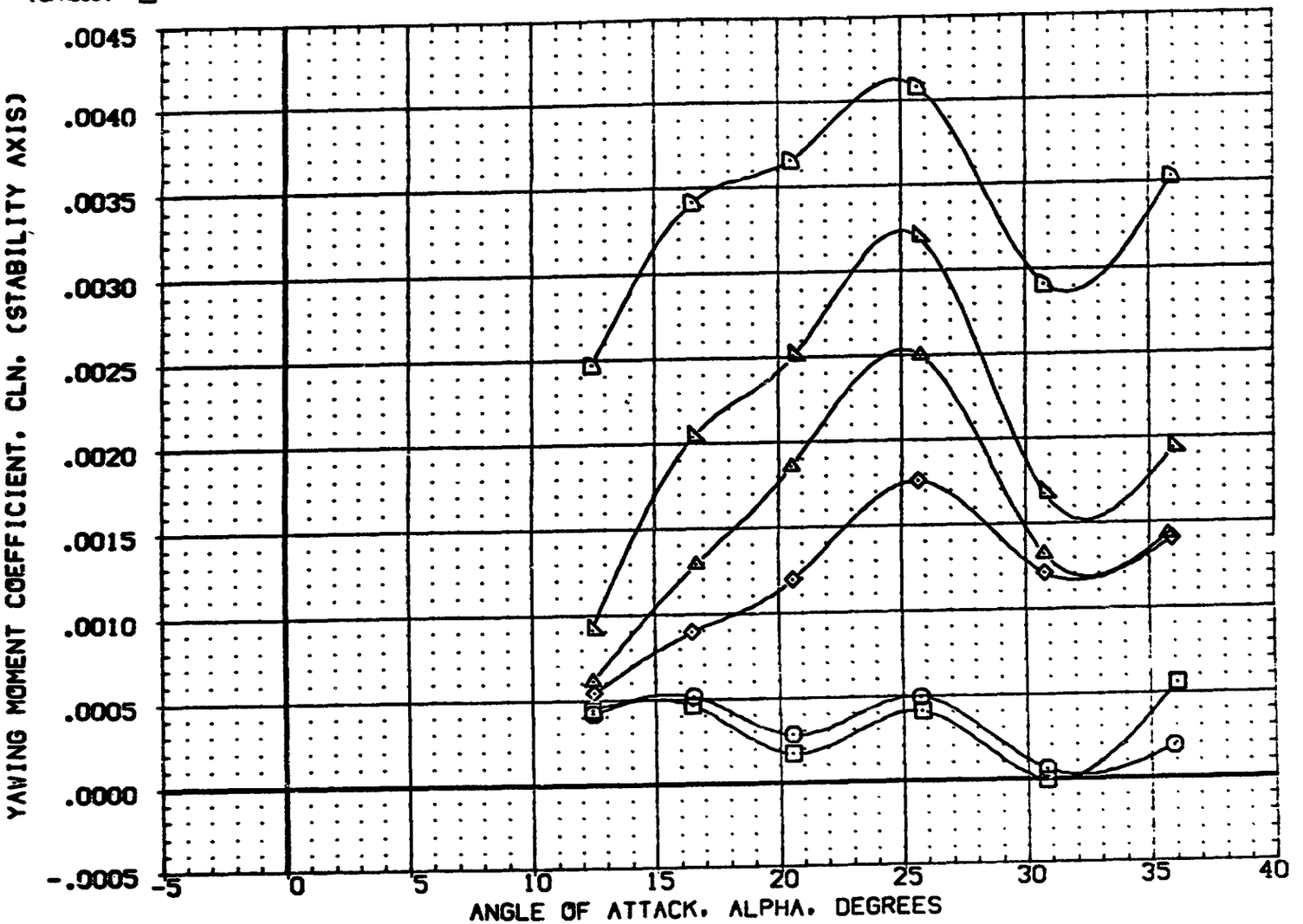
EFFECT OF PITCH/ROLL JETS FIRING TOWARD WING (LEFT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM058)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	.000	1.000
(CPM060)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	37.000	1.000
(CPM061)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	100.000	1.000
(CPM063)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	328.000	1.000
(CPM064)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

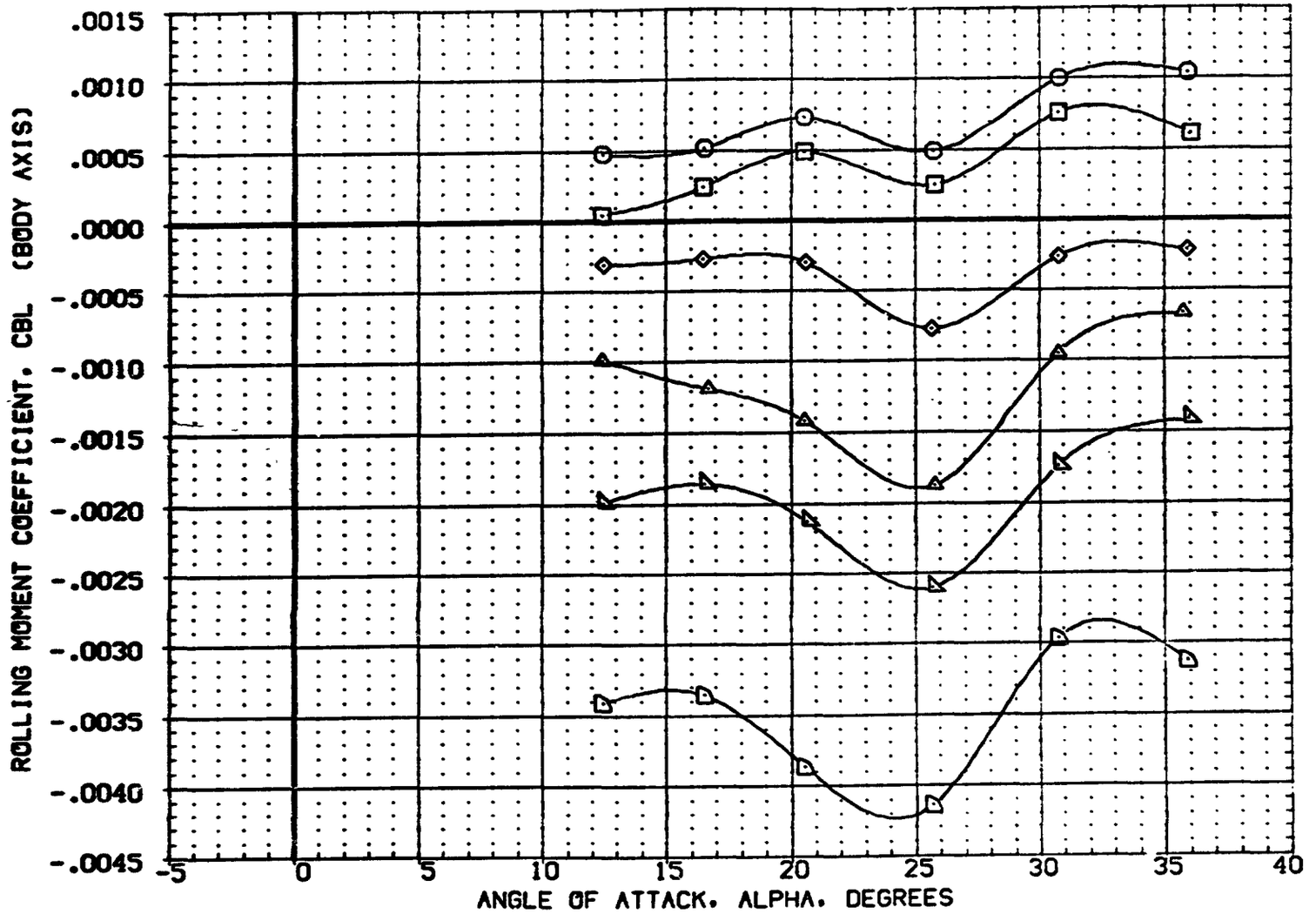


EFFECT OF PITCH/ROLL JETS FIRING TOWARD WING (LEFT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM059)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	.000	1.000
(CPM060)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	37.000	1.000
(CPM061)	⋈	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	100.000	1.000
(CPM063)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	199.000	1.000
(CPM064)	◁	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	328.000	1.000
(CPM066)	▷	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

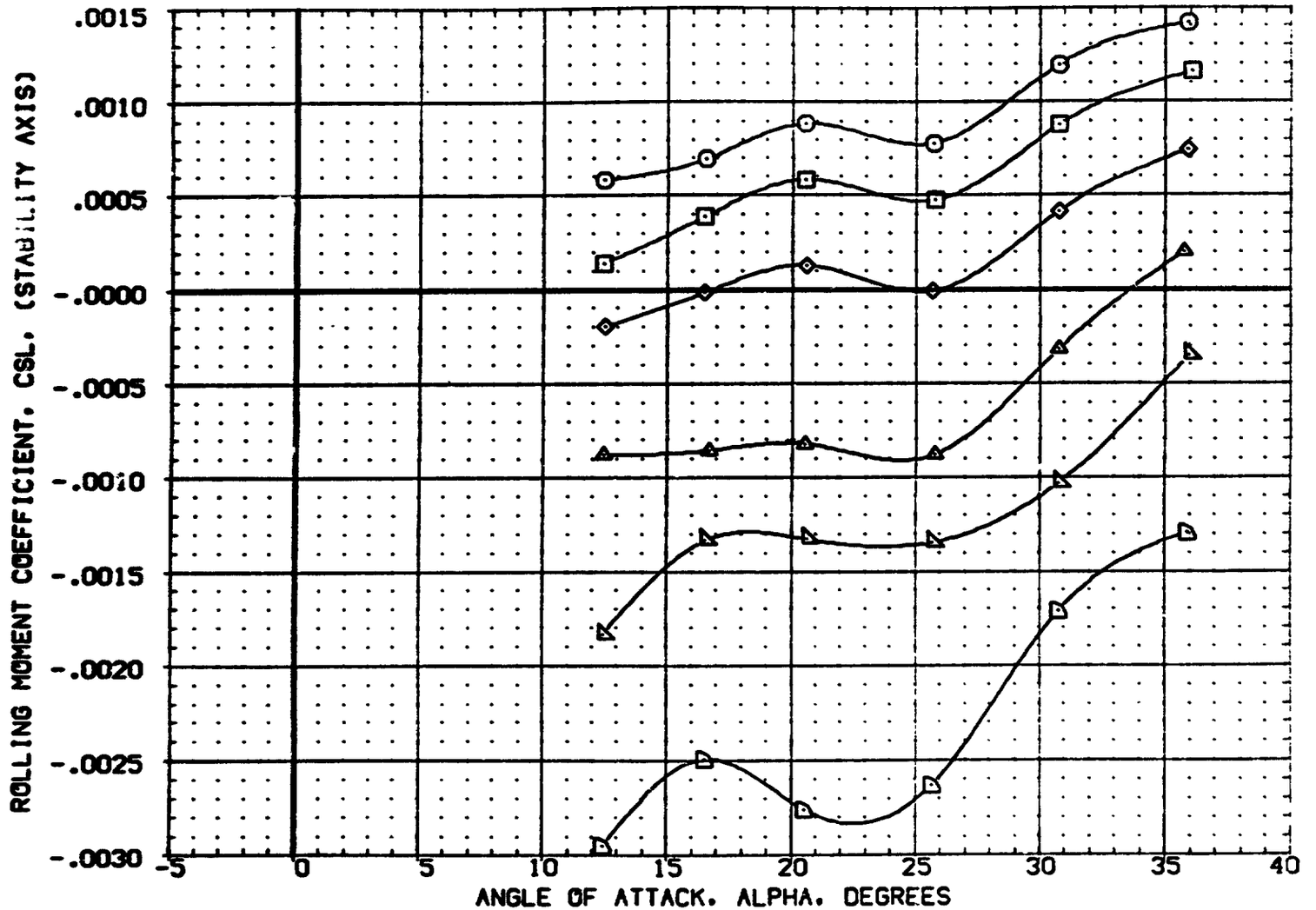


EFFECT OF PITCH/ROLL JETS FIRING TOWARD WING (LEFT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM058) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	.000	1.000
(CPM060) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	37.000	1.000
(CPM061) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	100.000	1.000
(CPM063) △	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	199.000	1.000
(CPM064) ▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	328.000	1.000
(CPM066) D	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



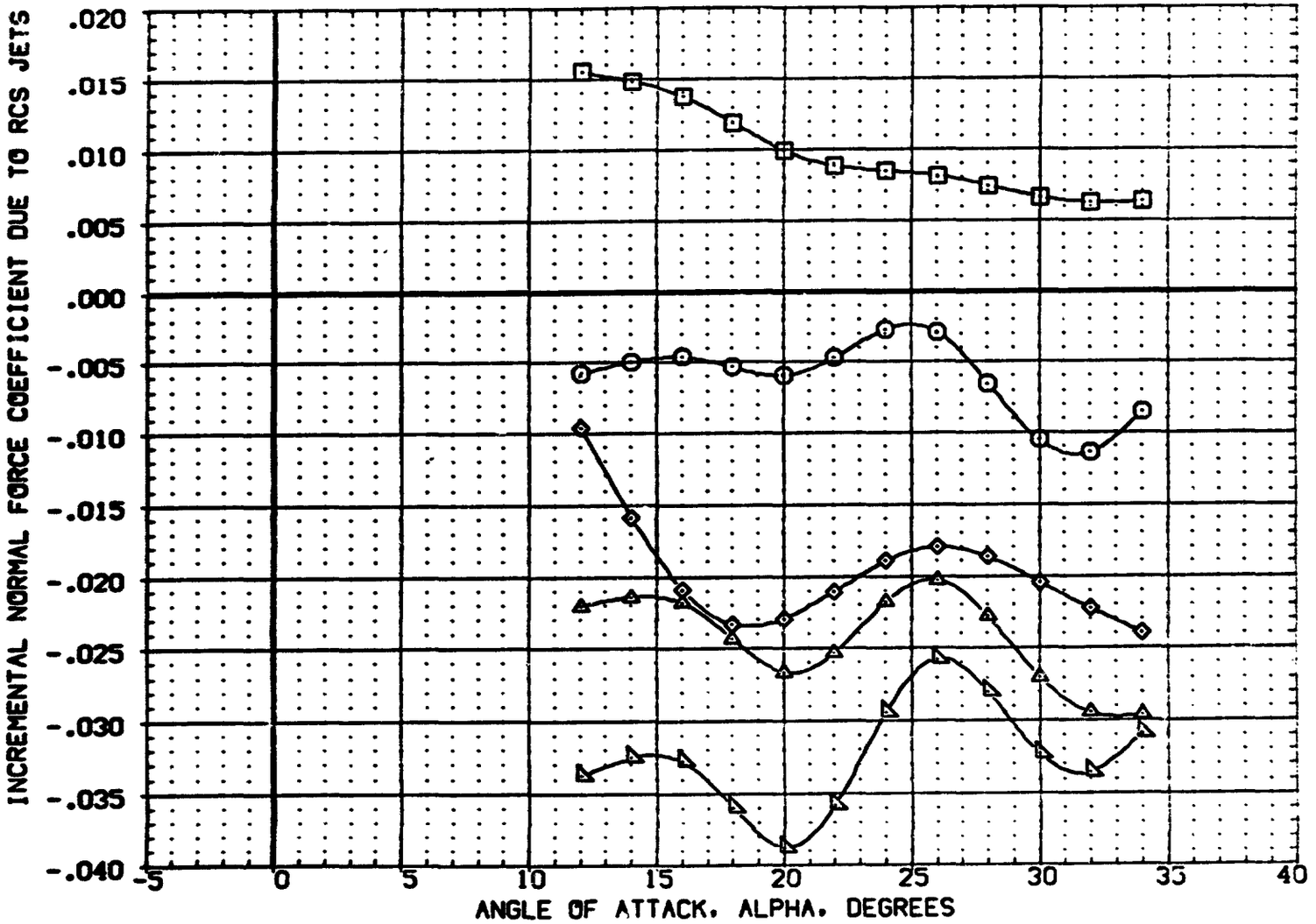
EFFECT OF PITCH/ROLL JETS FIRING TOWARD WING (LEFT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM060)	○	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	37.000	1.000
(APM061)	□	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	100.000	1.000
(APM063)	◇	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	199.000	1.000
(APM064)	△	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	328.000	1.000
(APM066)	▽	MA-7.LPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



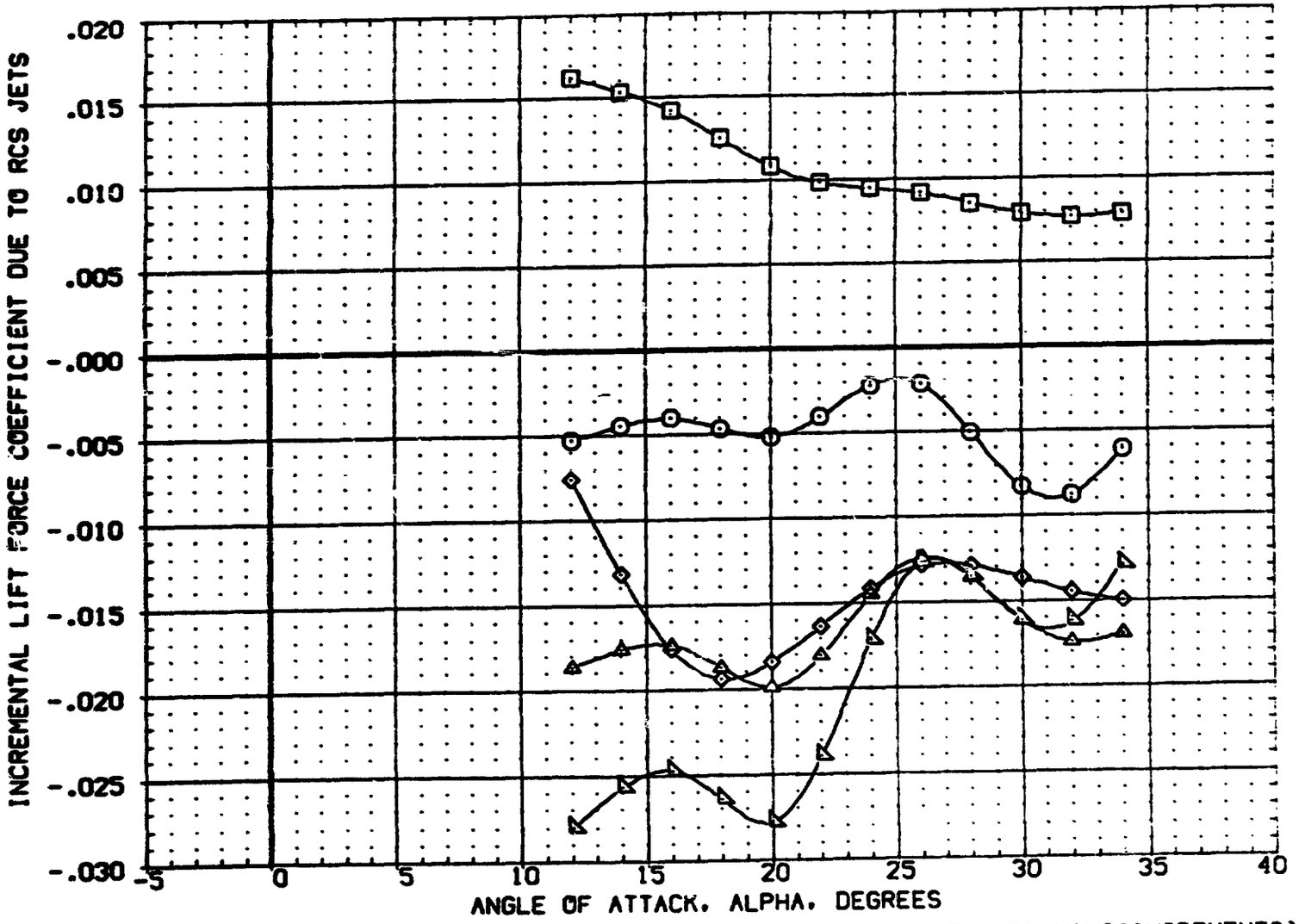
INTERFERENCE EFFECTS OF LEFT-SIDE PITCH/ROLL JETS FIRING TOWARD WING(INCREMENTS)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH060)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	37.000	1.000
(APH061)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	100.000	1.000
(APH063)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	199.000	1.000
(APH064)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	328.000	1.000
(APH066)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8928	
BREF	15.1152	
XMRP	12.95[illegible]	
YMRP	.0000	
ZMRP	6.0000	
SCALE	.0150	



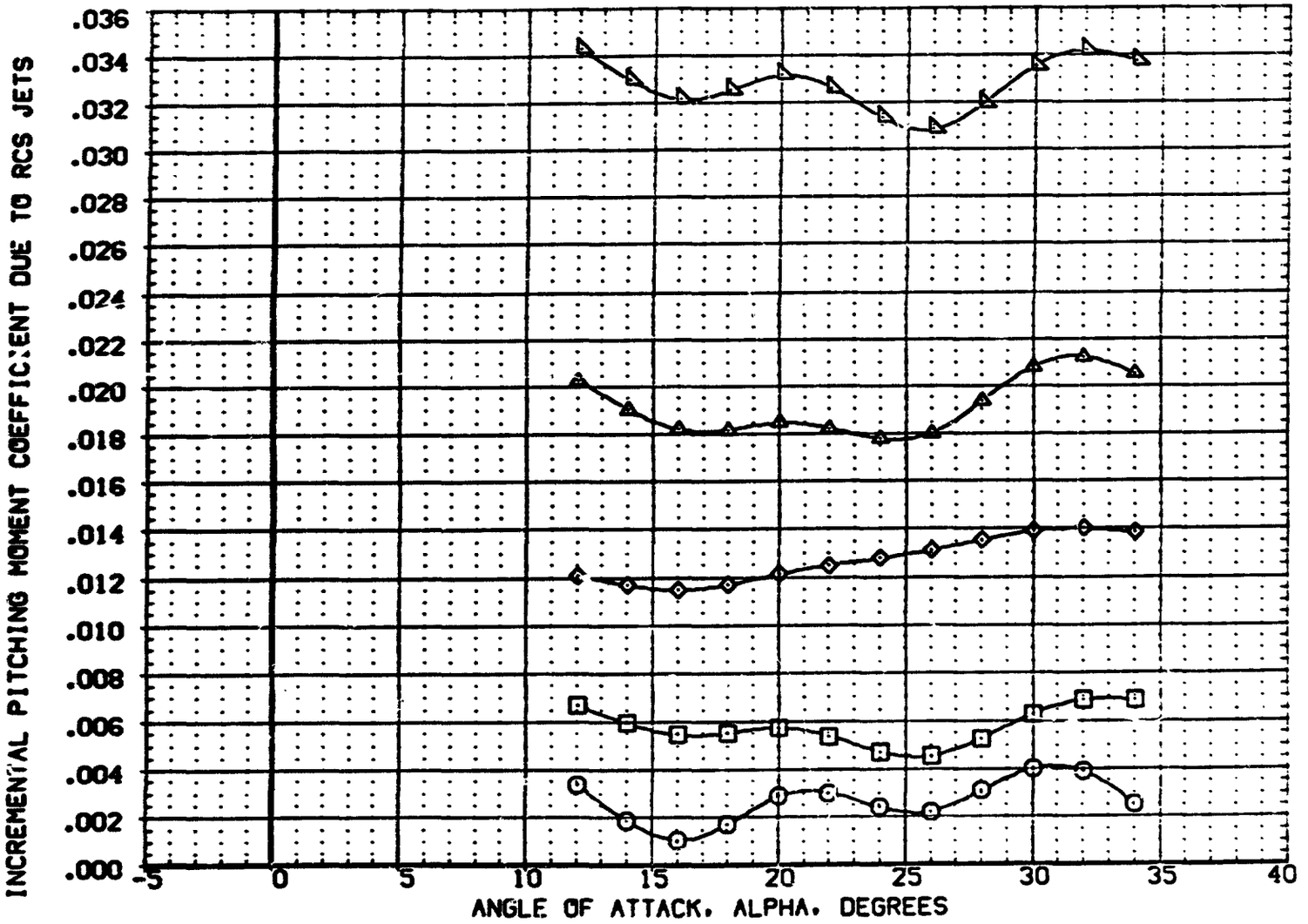
INTERFERENCE EFFECTS OF LEFT-SIDE PITCH/ROLL JETS FIRING TOWARD WING(INCREMENTS)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMO60)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	37.000	1.000
(APMO61)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	100.000	1.000
(APMO63)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	199.000	1.000
(APMO64)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	328.000	1.000
(APMO66)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN40	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8829	INCHES
BREF	15.1152	INCHES
XMRP	12.95	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



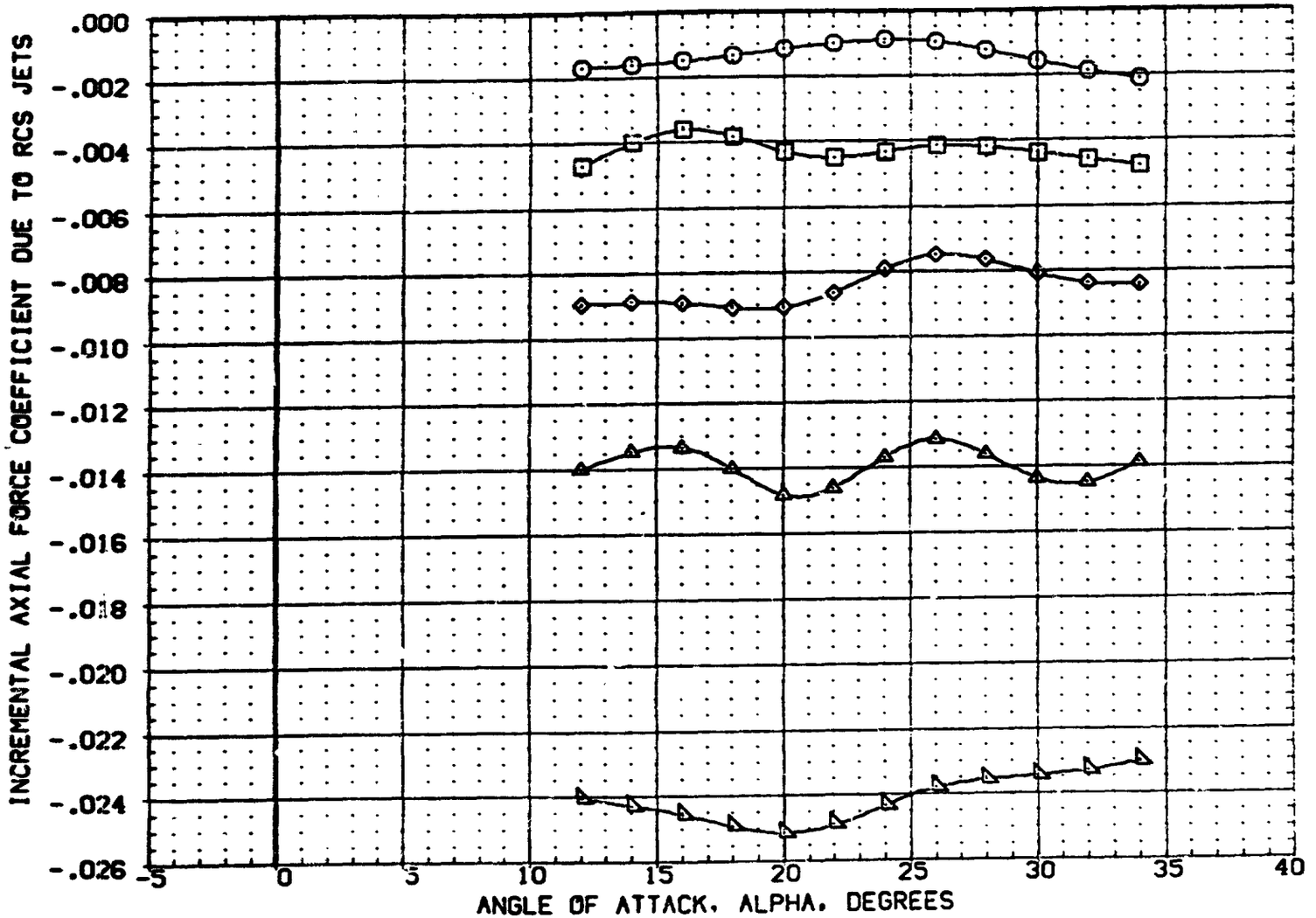
INTERFERENCE EFFECTS OF LEFT-SIDE PITCH/ROLL JETS FIRING TOWARD WING(INCREMENTS)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM060)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	37.000	1.000
(APM061)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	100.000	1.000
(APM063)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	199.000	1.000
(APM064)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	328.000	1.000
(APM066)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

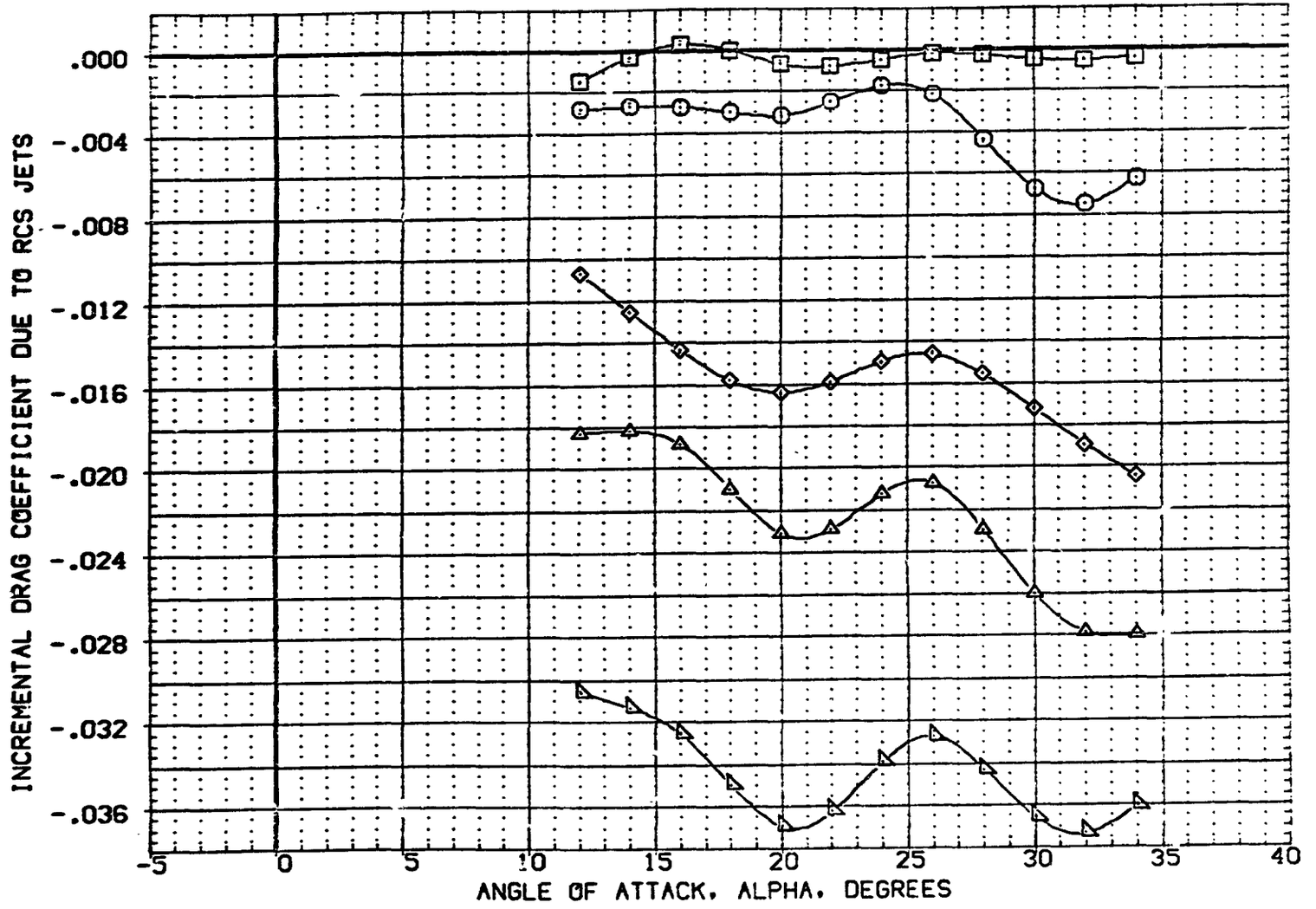


INTERFERENCE EFFECTS OF LEFT-SIDE PITCH/ROLL JETS FIRING TOWARD WING(INCREMENTS)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD60)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BWTN40	.000	37.000	1.000
(APMD61)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BWTN40	.000	100.000	1.000
(APMD63)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BWTN40	.000	199.000	1.000
(APMD54)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BWTN40	.000	328.000	1.000
(APMD36)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BWTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.6828	INCHES
BREF	15.1152	INCHES
XMRP	12.5811	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

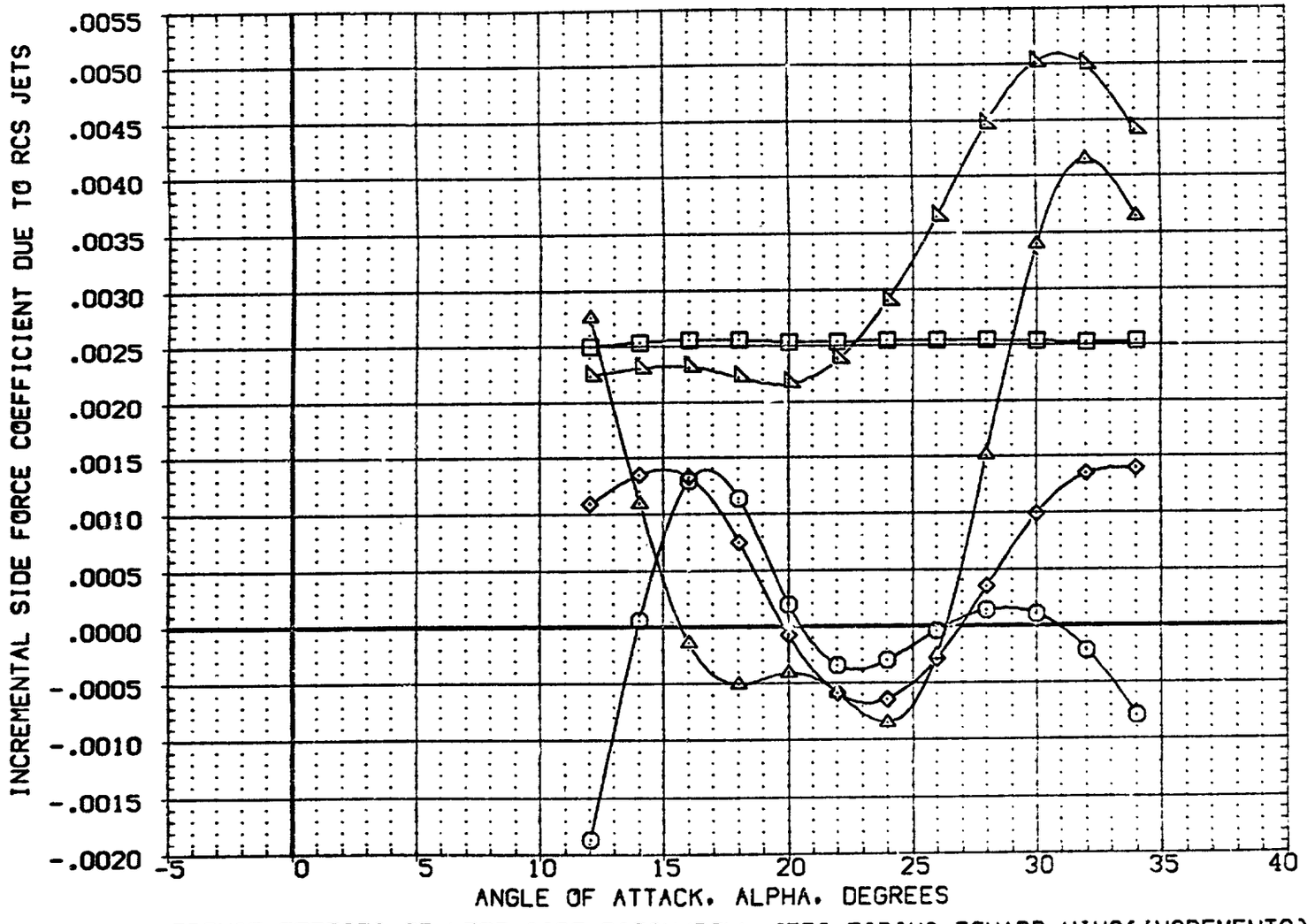


INTERFERENCE EFFECTS OF LEFT-SIDE PITCH/ROLL JETS FIRING TOWARD WING(INCREMENTS)

(A)MACH = 4.00

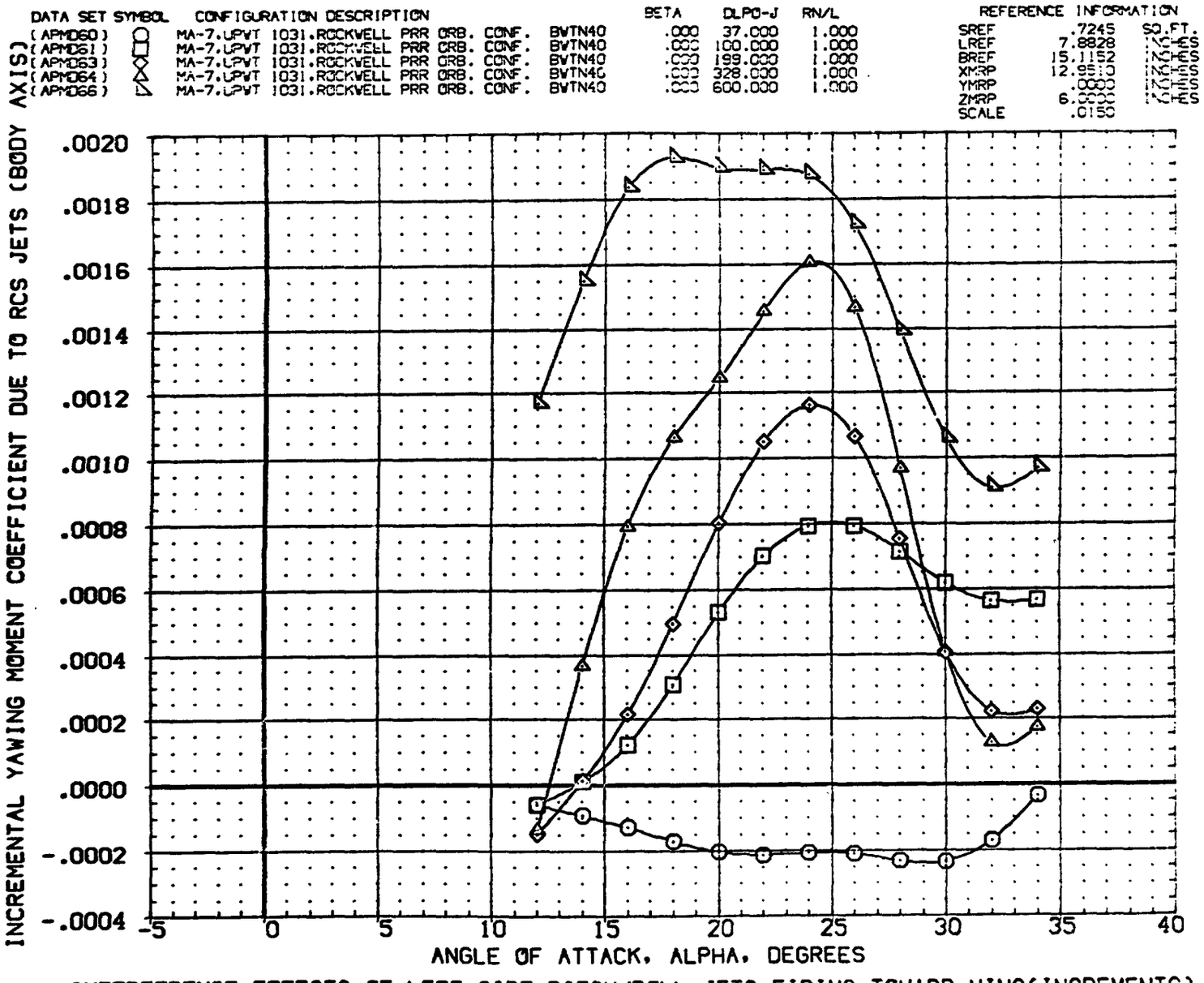
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM06G)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BWTN40	.000	37.000	1.000
(APM061)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BWTN40	.000	100.000	1.000
(APM063)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BWTN40	.000	199.000	1.000
(APM064)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BWTN40	.000	328.000	1.000
(APM056)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BWTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



INTERFERENCE EFFECTS OF LEFT-SIDE PITCH/ROLL JETS FIRING TOWARD WING(INCREMENTS)

(A)MACH = 4.00



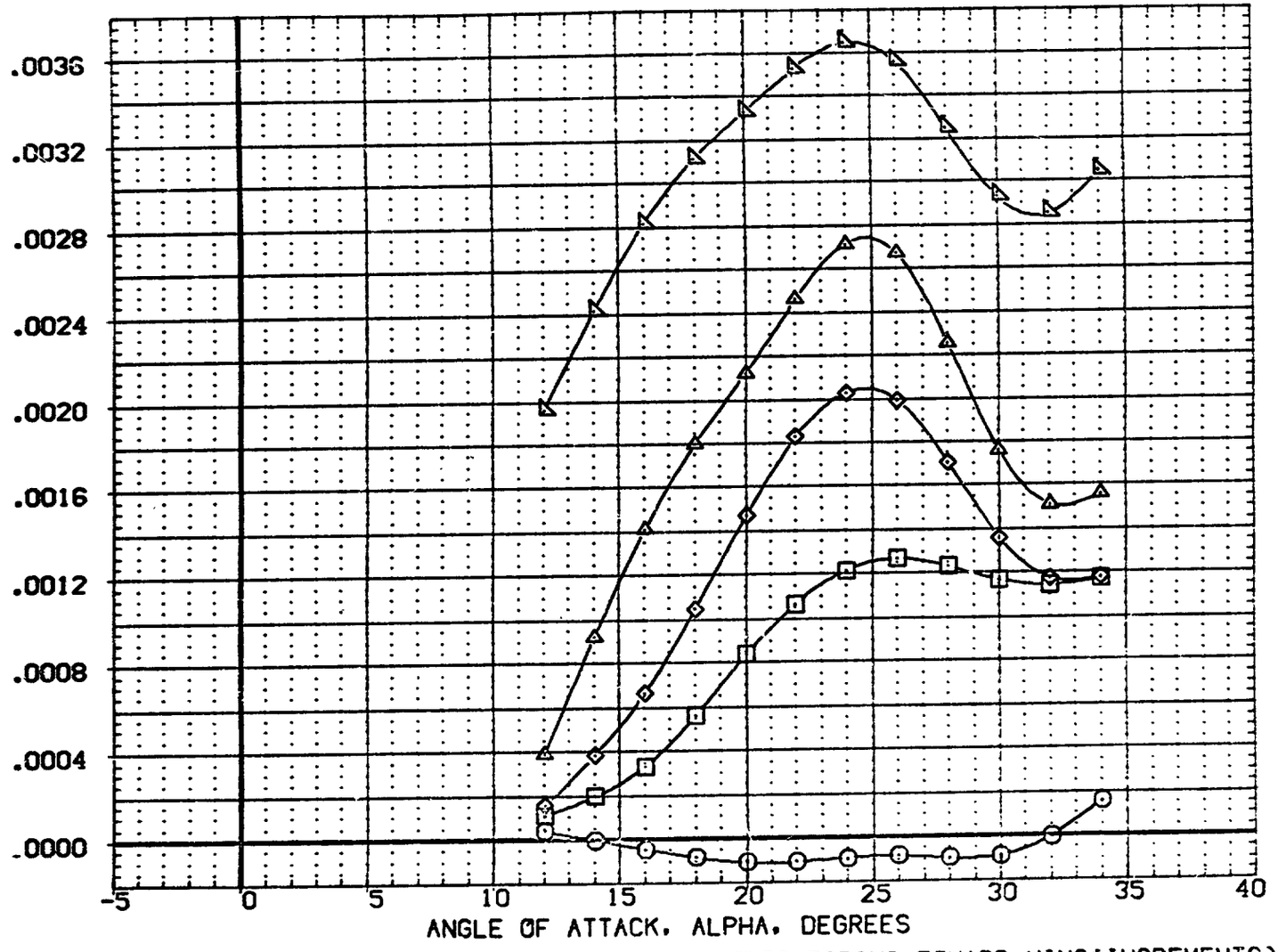
INTERFERENCE EFFECTS OF LEFT-SIDE PITCH/ROLL JETS FIRING TOWARD WING(INCREMENTS)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM060)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BWTN40	.000	37.000	1.000
(APM061)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BWTN40	.000	100.000	1.000
(APM063)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BWTN40	.000	199.000	1.000
(APM064)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BWTN40	.000	328.000	1.000
(APM066)	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BWTN40	.000	600.000	1.000

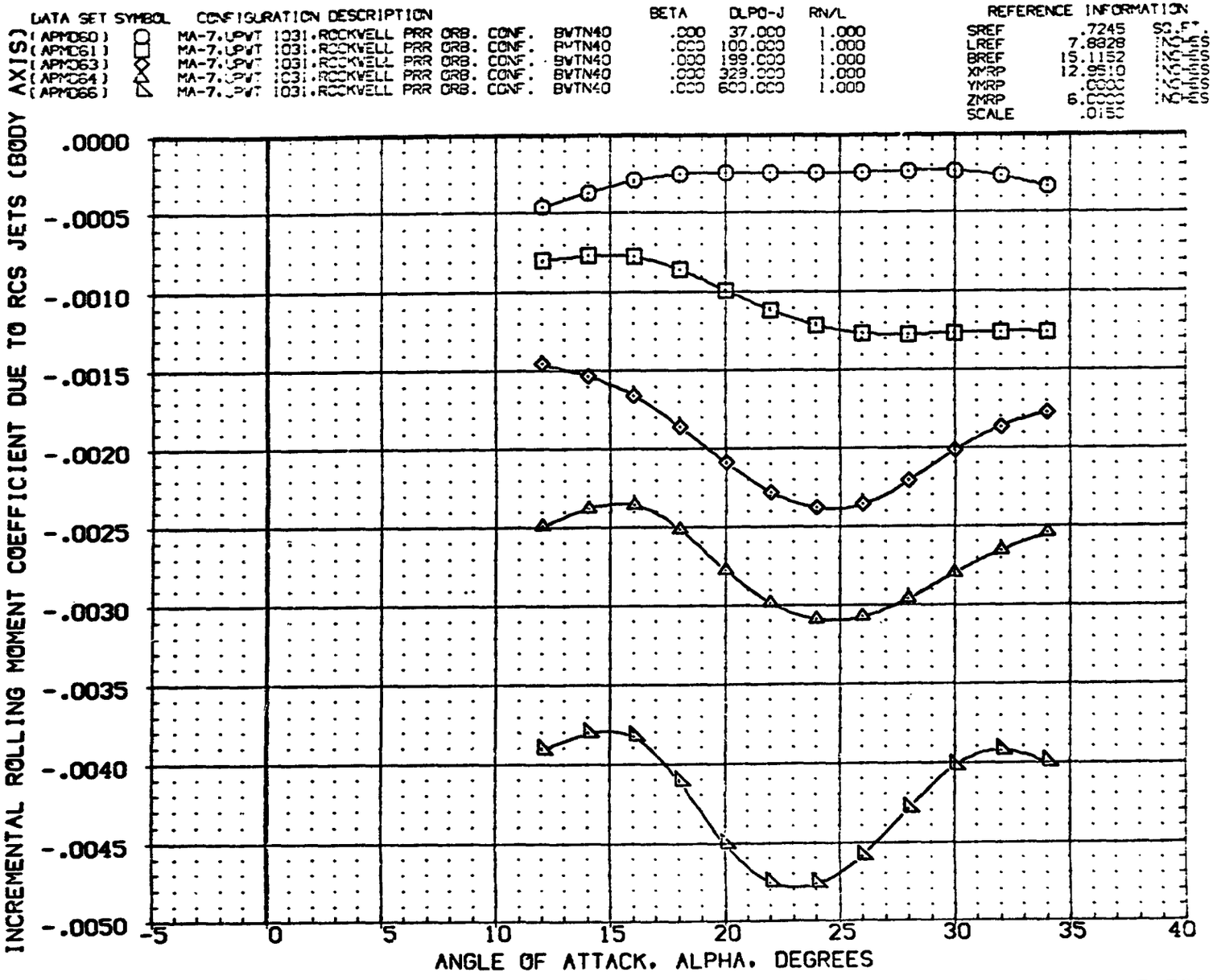
REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



INTERFERENCE EFFECTS OF LEFT-SIDE PITCH/ROLL JETS FIRING TOWARD WING(INCREMENTS)

(A)MACH = 4.00



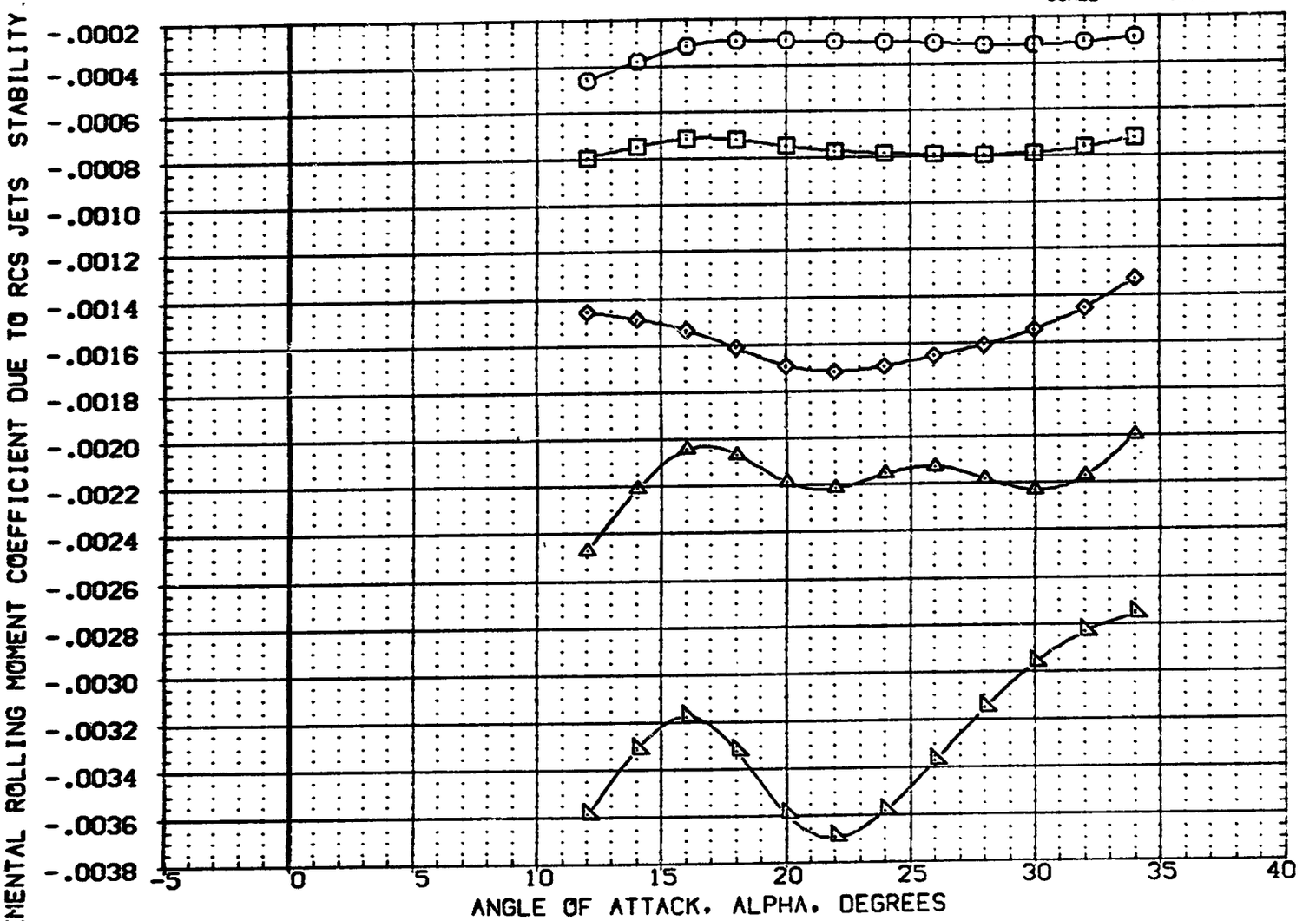
INTERFERENCE EFFECTS OF LEFT-SIDE PITCH/ROLL JETS FIRING TOWARD WING(INCREMENTS)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM060)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	37.000	1.000
(APM061)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	100.000	1.000
(APM063)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	199.000	1.000
(APM064)	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BVTN40	.000	328.000	1.000
(APM066)	MA-7.UPWT 1031 ROCKWELL PRR ORB. CONF.	BVTN40	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

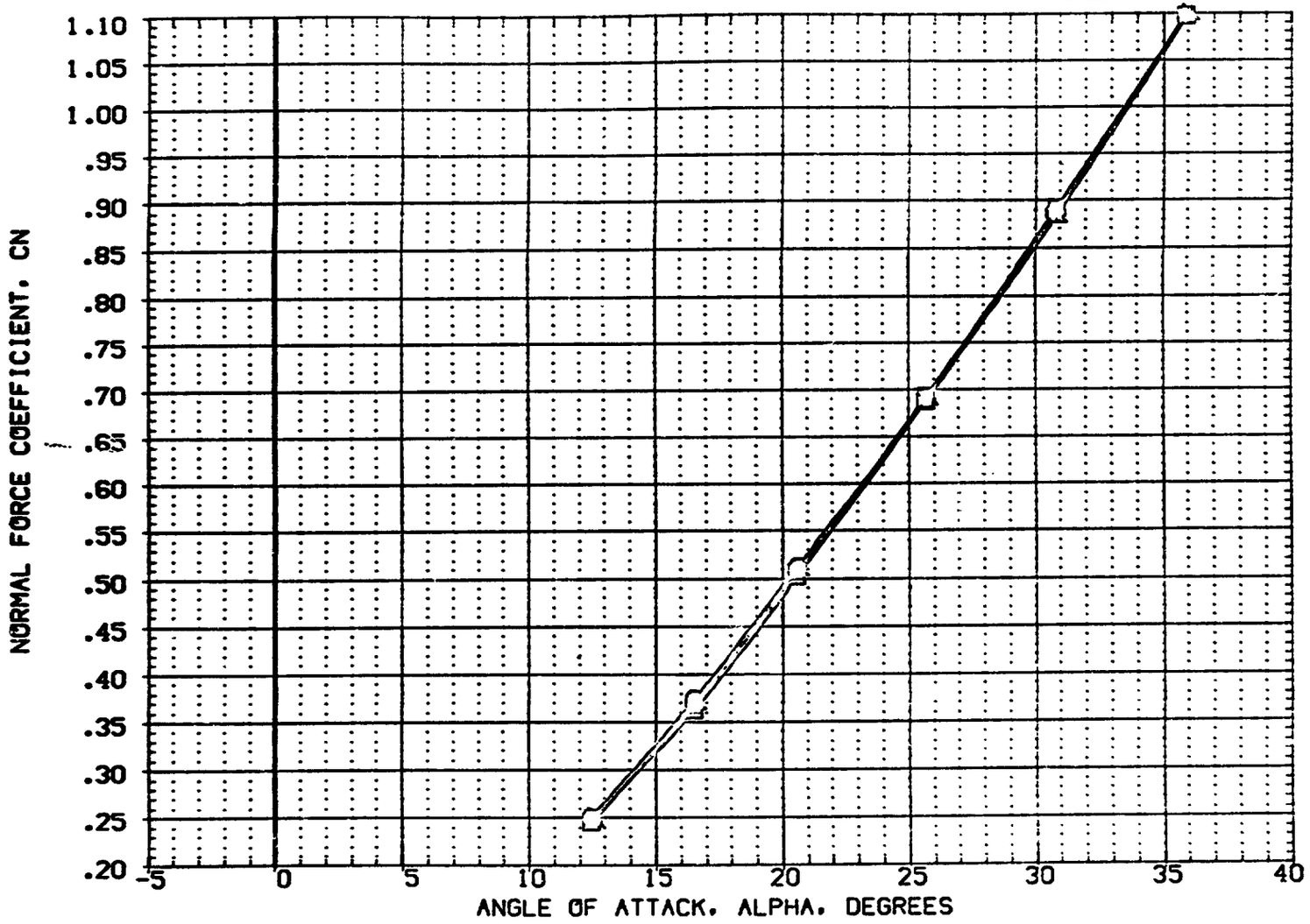


INTERFERENCE EFFECTS OF LEFT-SIDE PITCH/ROLL JETS FIRING TOWARD WING(INCREMENTS)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM070)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	.000	1.000
(CPM072)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	37.000	1.000
(CPM073)	⋈	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	100.000	1.000
(CPM075)	◁	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	199.000	1.000
(CPM076)	▷	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	328.000	1.000
(CPM078)	D	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

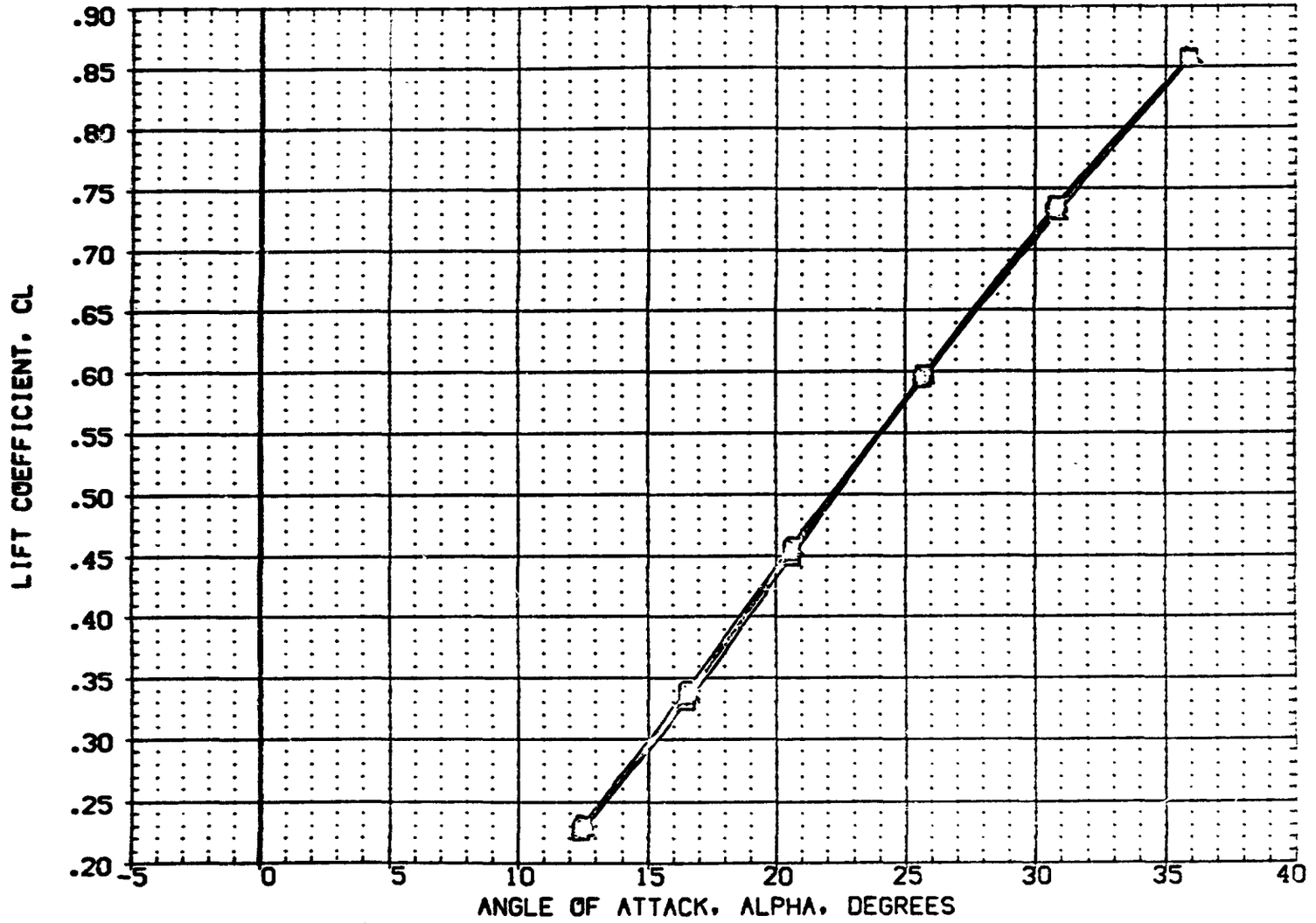


EFFECT OF PITCH/ROLL JETS FIRING TOWARD VERT. TAIL (RIGHT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPH070)	□	MA-7.UPVT 103).ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000
(CPH072)	○	MA-7.UPVT 103).ROCKWELL PRR ORB. CONF.	BVTN41	.000	37.000	1.000
(CPH073)	◇	MA-7.UPVT 103).ROCKWELL PRR ORB. CONF.	BVTN41	.000	100.000	1.000
(CPH075)	△	MA-7.UPVT 103).ROCKWELL PRR ORB. CONF.	BVTN41	.000	199.000	1.000
(CPH076)	▽	MA-7.UPVT 103).ROCKWELL PRR ORB. CONF.	BVTN41	.000	328.000	1.000
(CPH078)	▷	MA-7.UPVT 103).ROCKWELL PRR ORB. CONF.	BVTN41	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0155	

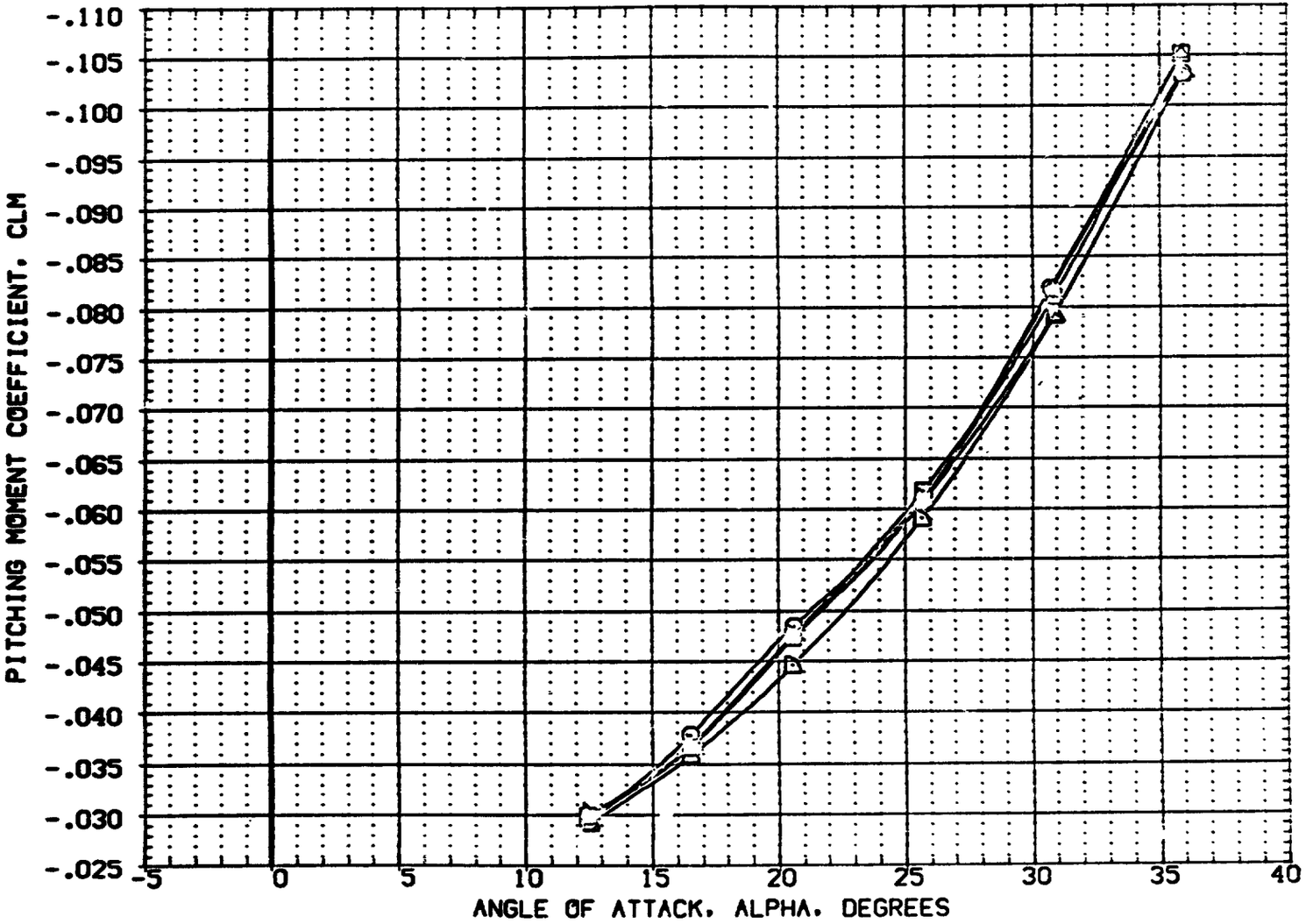


EFFECT OF PITCH/ROLL JETS FIRING TOWARD VERT. TAIL (RIGHT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPMO70)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	.000	1.000
(CPMO72)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	37.000	1.000
(CPMO73)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	100.000	1.000
(CPMO75)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	199.000	1.000
(CPMO76)	◁	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	328.000	1.000
(CPMO78)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.5510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



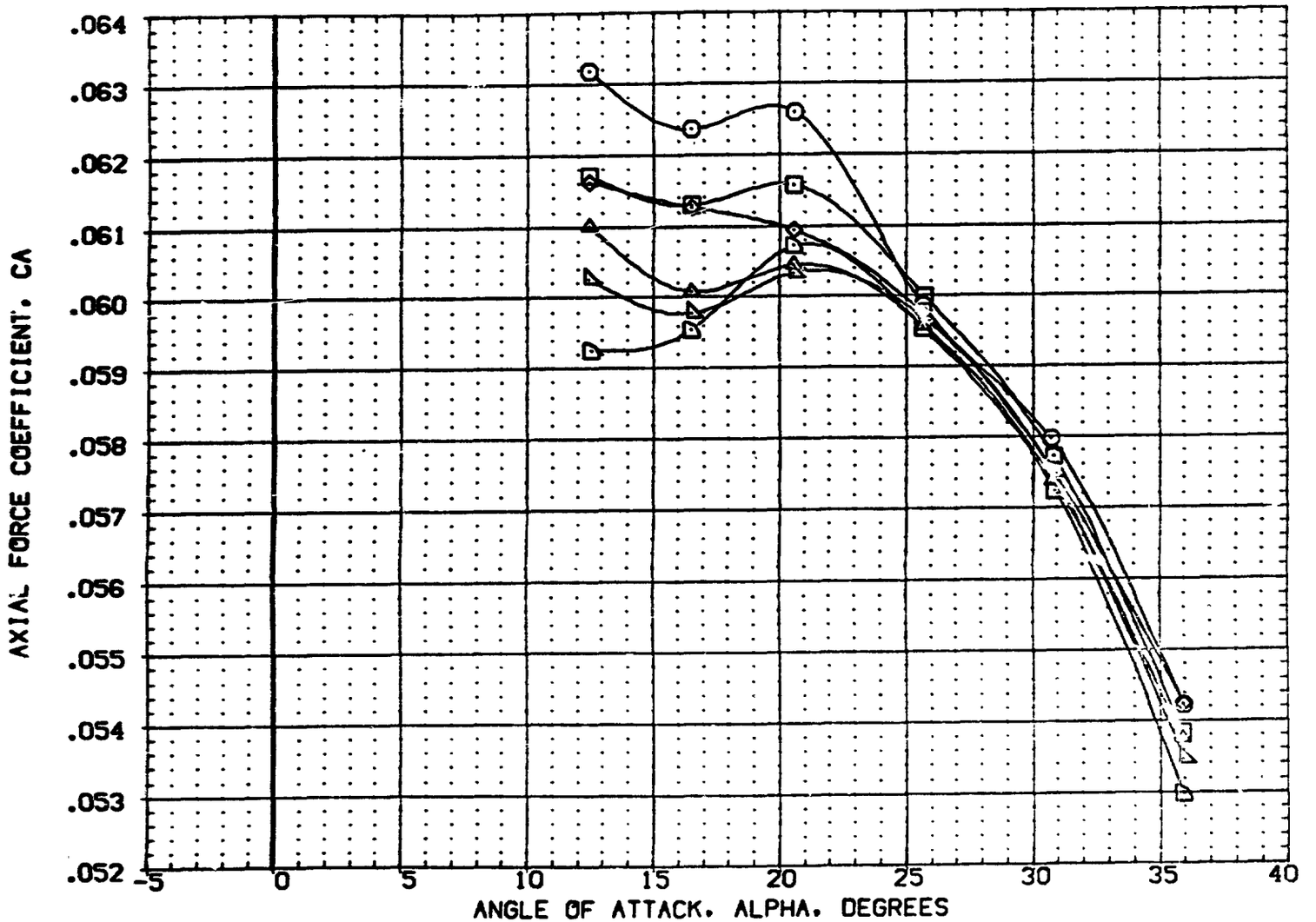
EFFECT OF PITCH/ROLL JETS FIRING TOWARD VERT. TAIL (RIGHT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM07C)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	.000	1.000
(CPM072)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	37.000	1.000
(CPM073)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	100.000	1.000
(CPM075)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	199.000	1.000
(CPM076)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	328.000	1.000
(CPM078)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

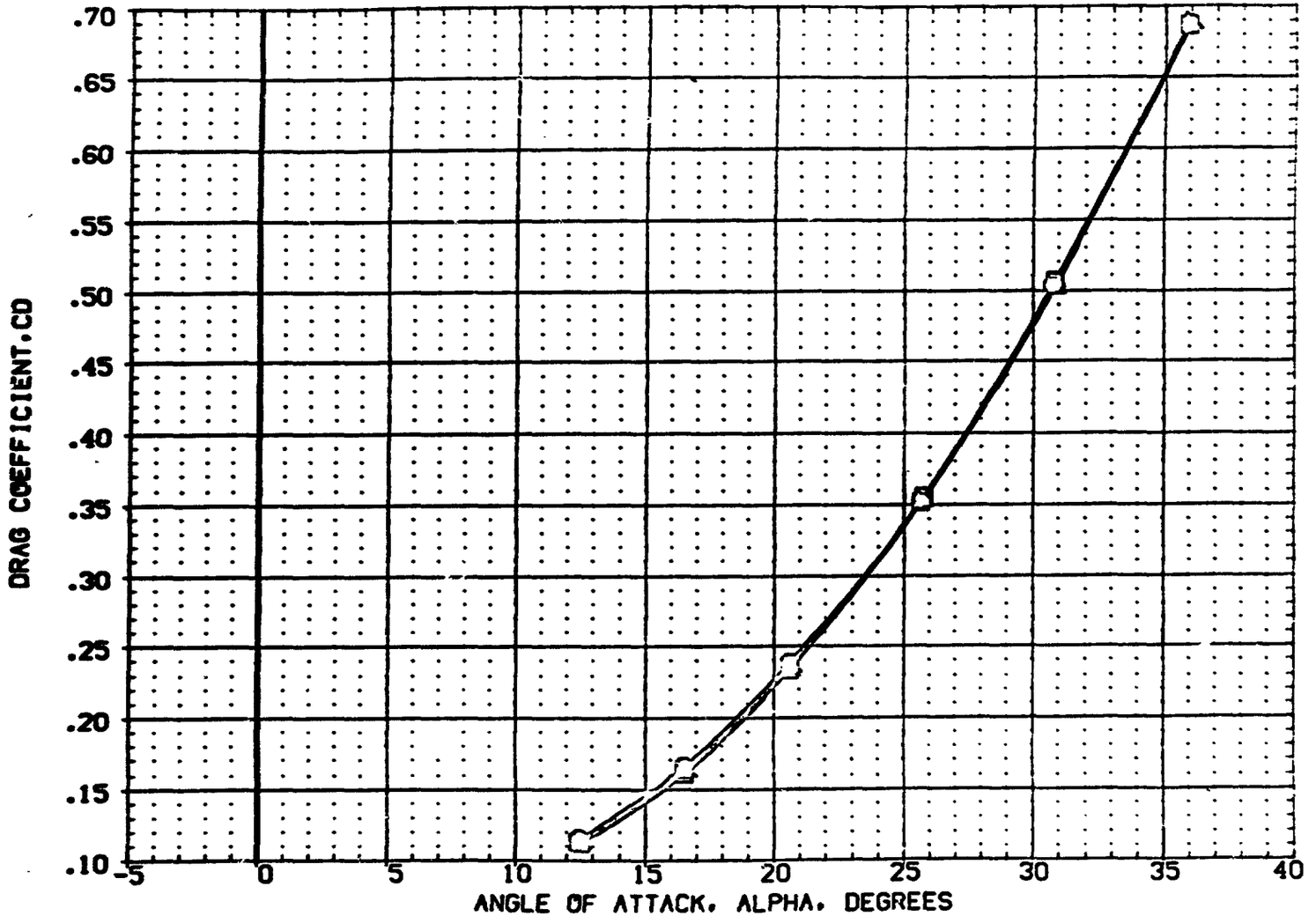


EFFECT OF PITCH/ROLL JETS FIRING TOWARD VERT. TAIL (RIGHT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM070)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	.000	1.000
(CPM072)	◇	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	37.000	1.000
(CPM073)	⊠	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	100.000	1.000
(CPM075)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	199.000	1.000
(CPM076)	▽	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	328.000	1.000
(CPM078)	▷	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



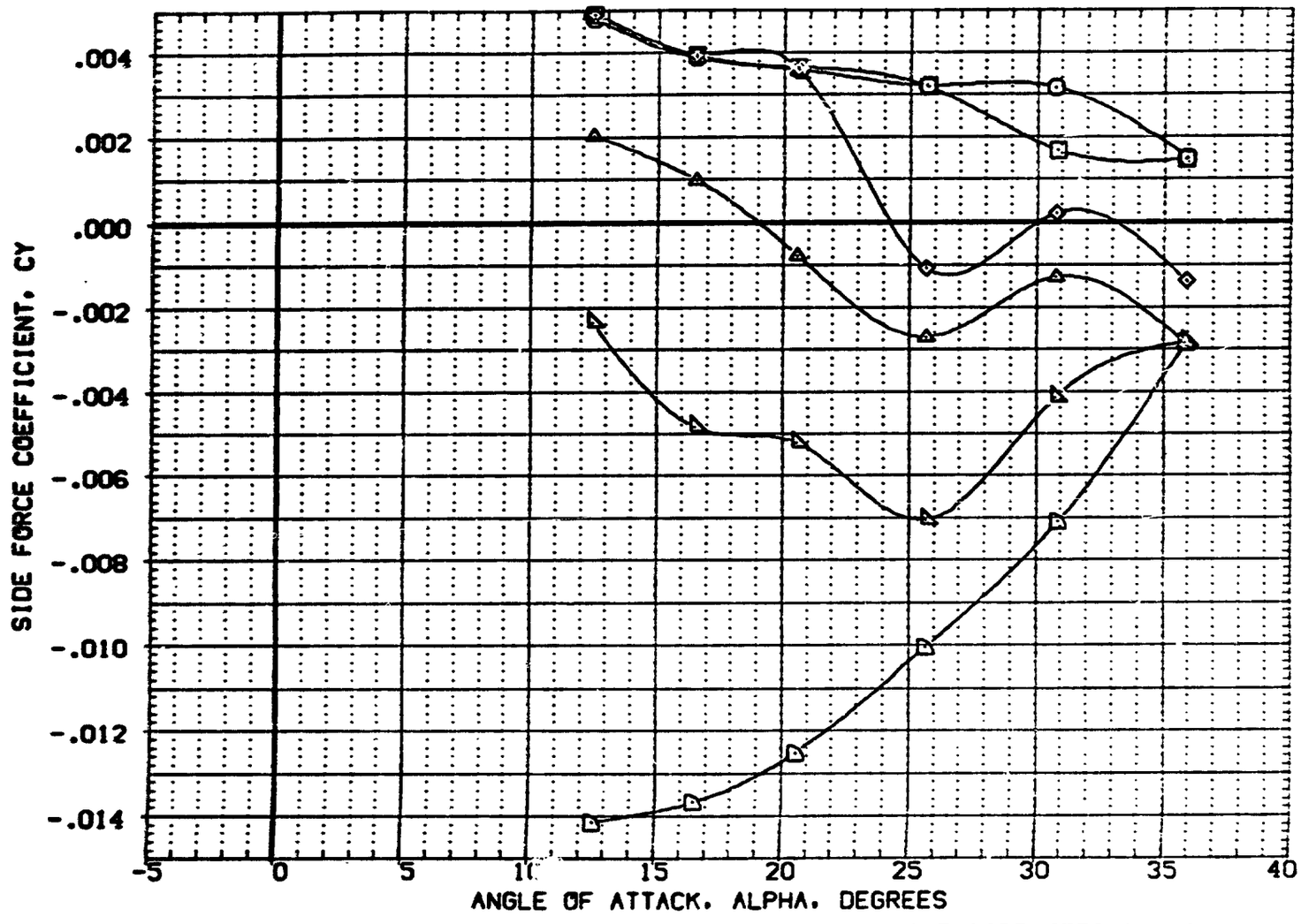
EFFECT OF PITCH/ROLL JETS FIRING TOWARD VERT. TAIL (RIGHT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPH070)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	.000	1.000
(CPH072)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	37.000	1.000
(CPH073)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	100.000	1.000
(CPH075)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	199.000	1.000
(CPH076)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	328.000	1.000
(CPH078)	D	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8923	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

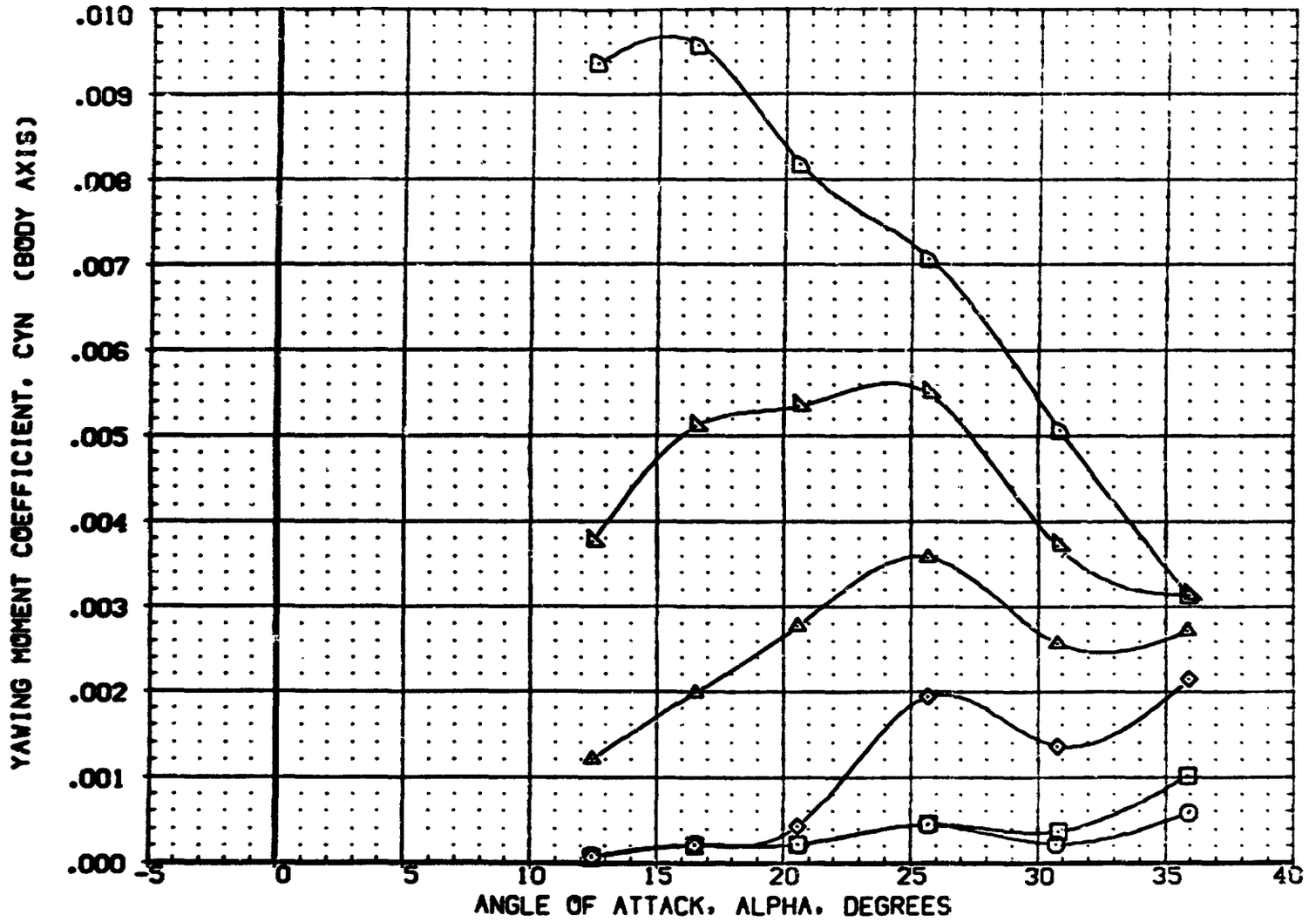


EFFECT OF PITCH/ROLL JETS FIRING TOWARD VERT. TAIL (RIGHT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM070)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	.000	1.000
(CPM072)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	37.000	1.000
(CPM073)	⊠	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	100.000	1.000
(CPM075)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	199.000	1.000
(CPM076)	⊙	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	328.000	1.000
(CPM078)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8328	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

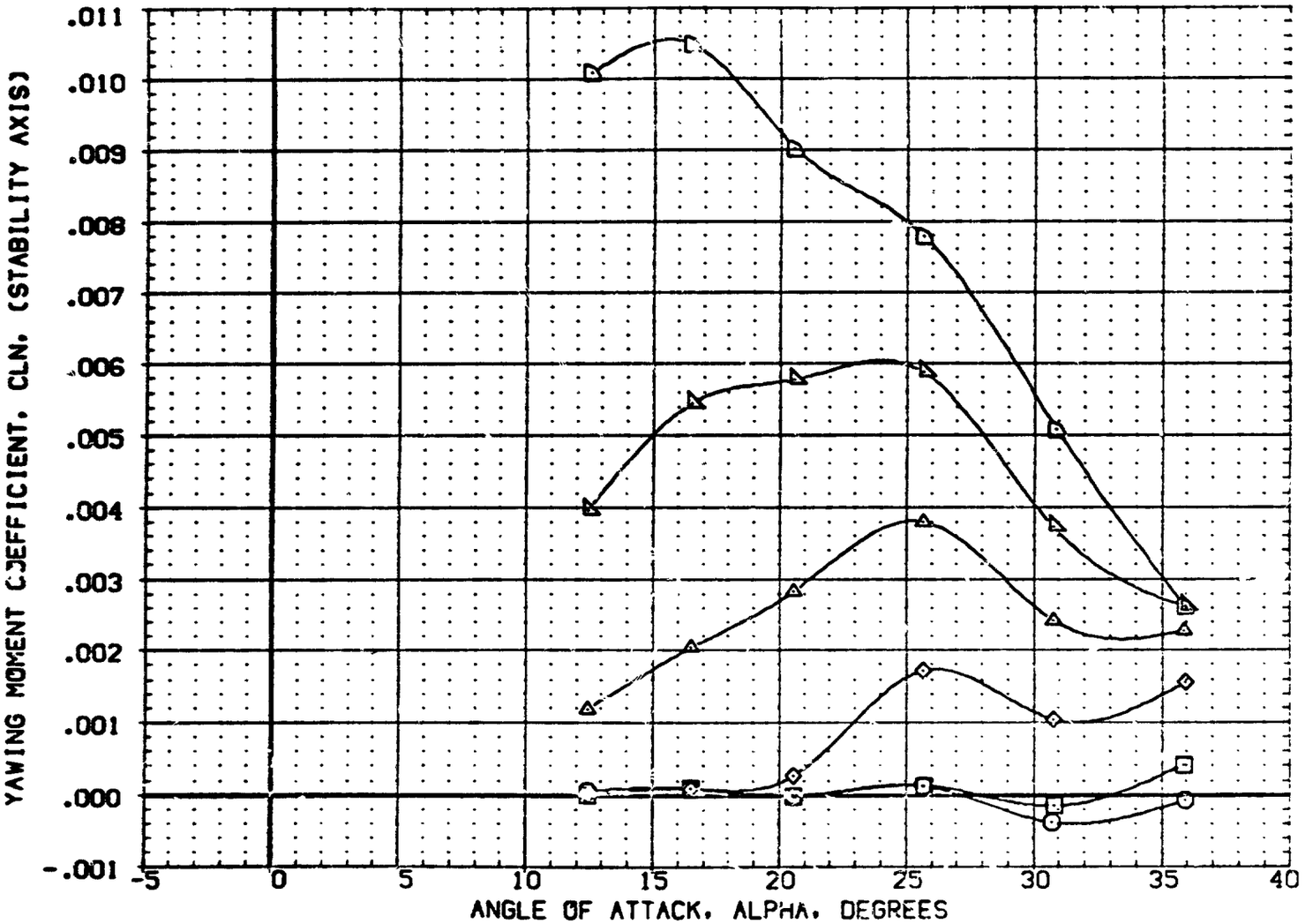


EFFECT OF PITCH/ROLL JETS FIRING TOWARD VERT. TAIL (RIGHT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM070)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	.00	1.000
(CPM072)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	37.000	1.000
(CPM073)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	100.000	1.000
(CPM075)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	199.000	1.000
(CPM076)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	328.000	1.000
(CPM078)	◁	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

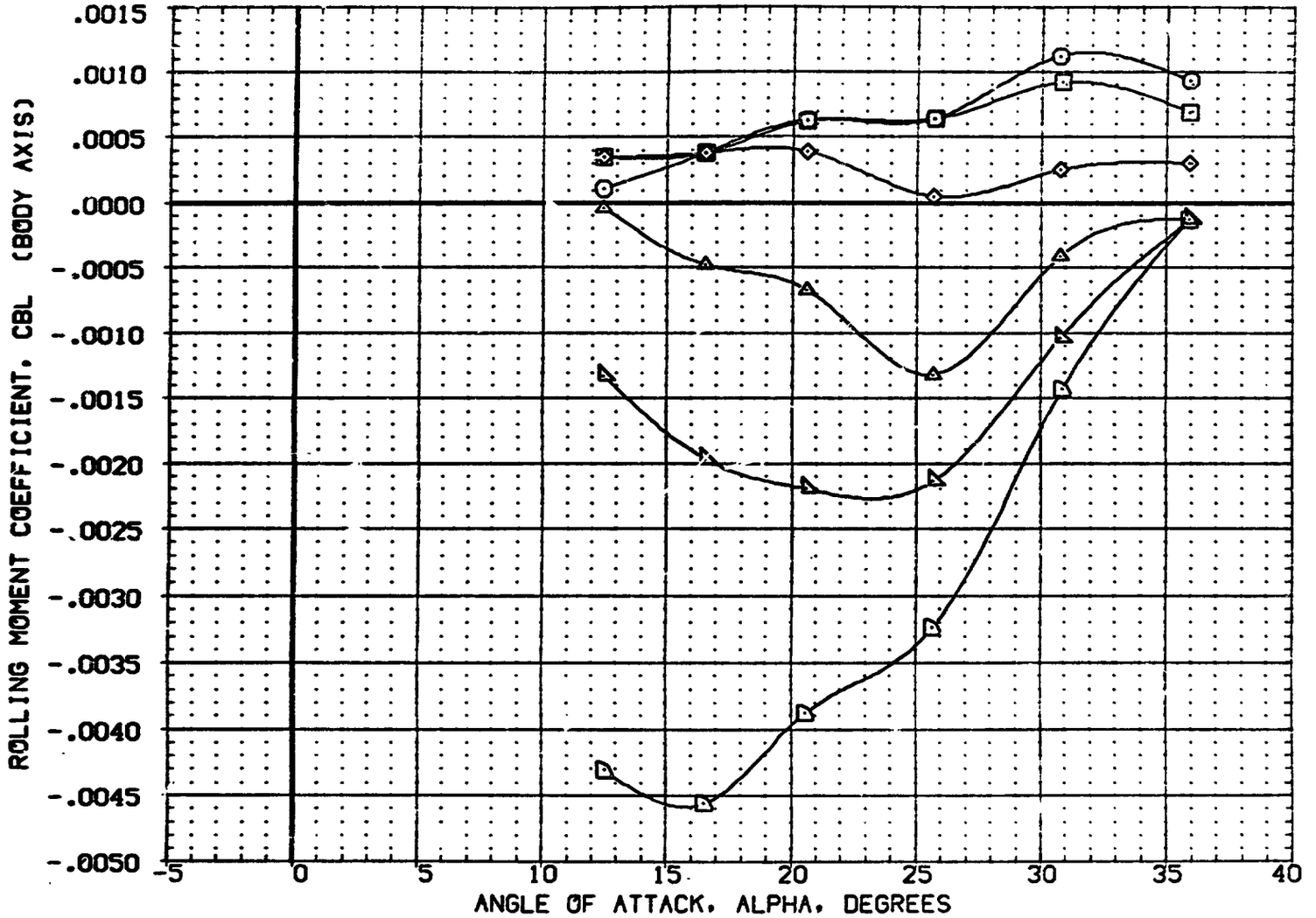


EFFECT OF PITCH/ROLL JETS FIRING TOWARD VERT. TAIL (RIGHT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM070)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	.000	1.000
(CPM072)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	37.000	1.000
(CPM073)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	100.000	1.000
(CPM075)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	199.000	1.000
(CPM076)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	326.000	1.000
(CPM078)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



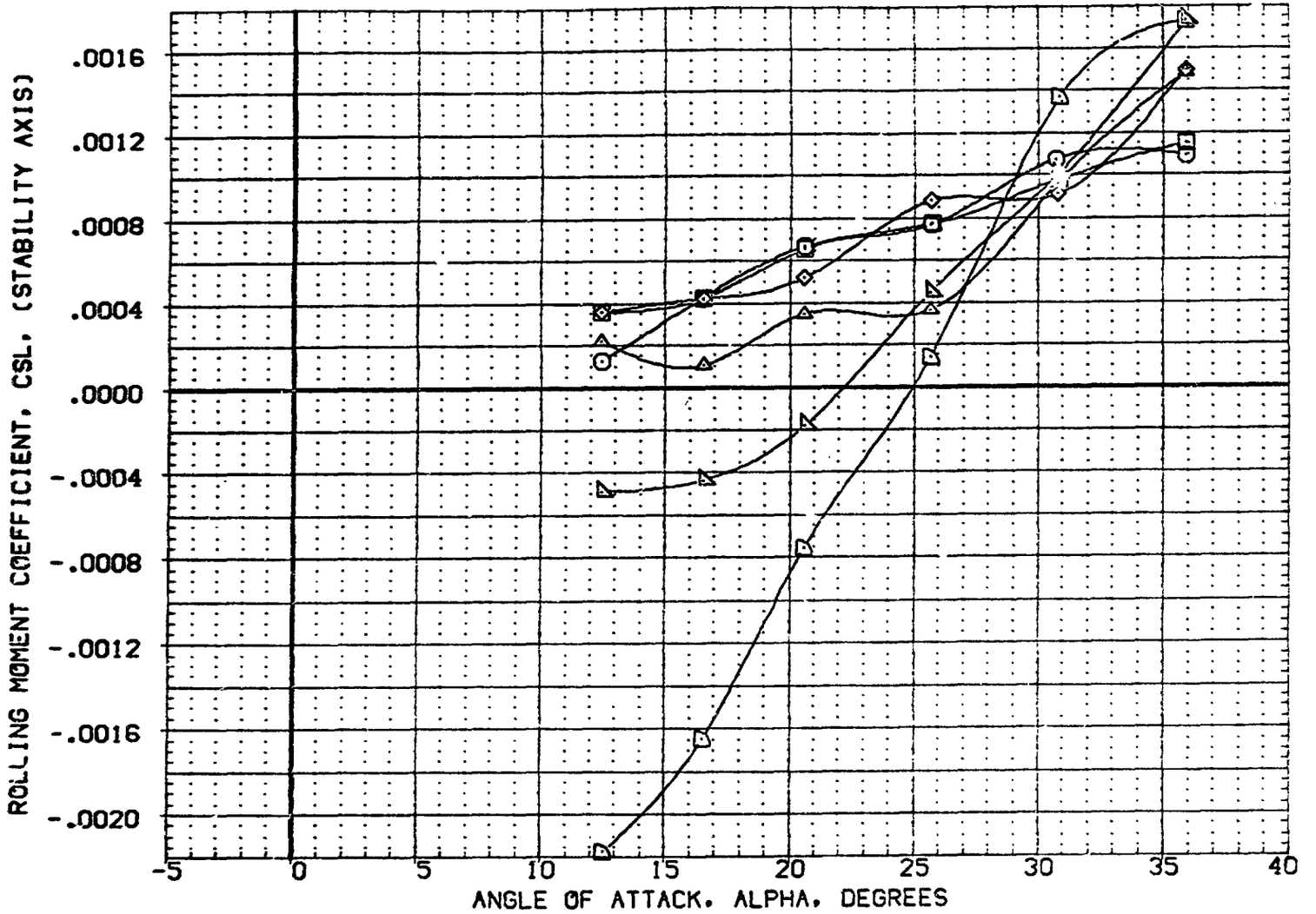
EFFECT OF PITCH/ROLL JETS FIRING TOWARD VERT. TAIL (RIGHT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM070)		MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	.000	1.000
(CPM072)		MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	37.000	1.000
(CPM073)		MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	100.000	1.000
(CPM075)		MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	199.000	1.000
(CPM076)		MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	328.000	1.000
(CPM078)		MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BVTN41	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



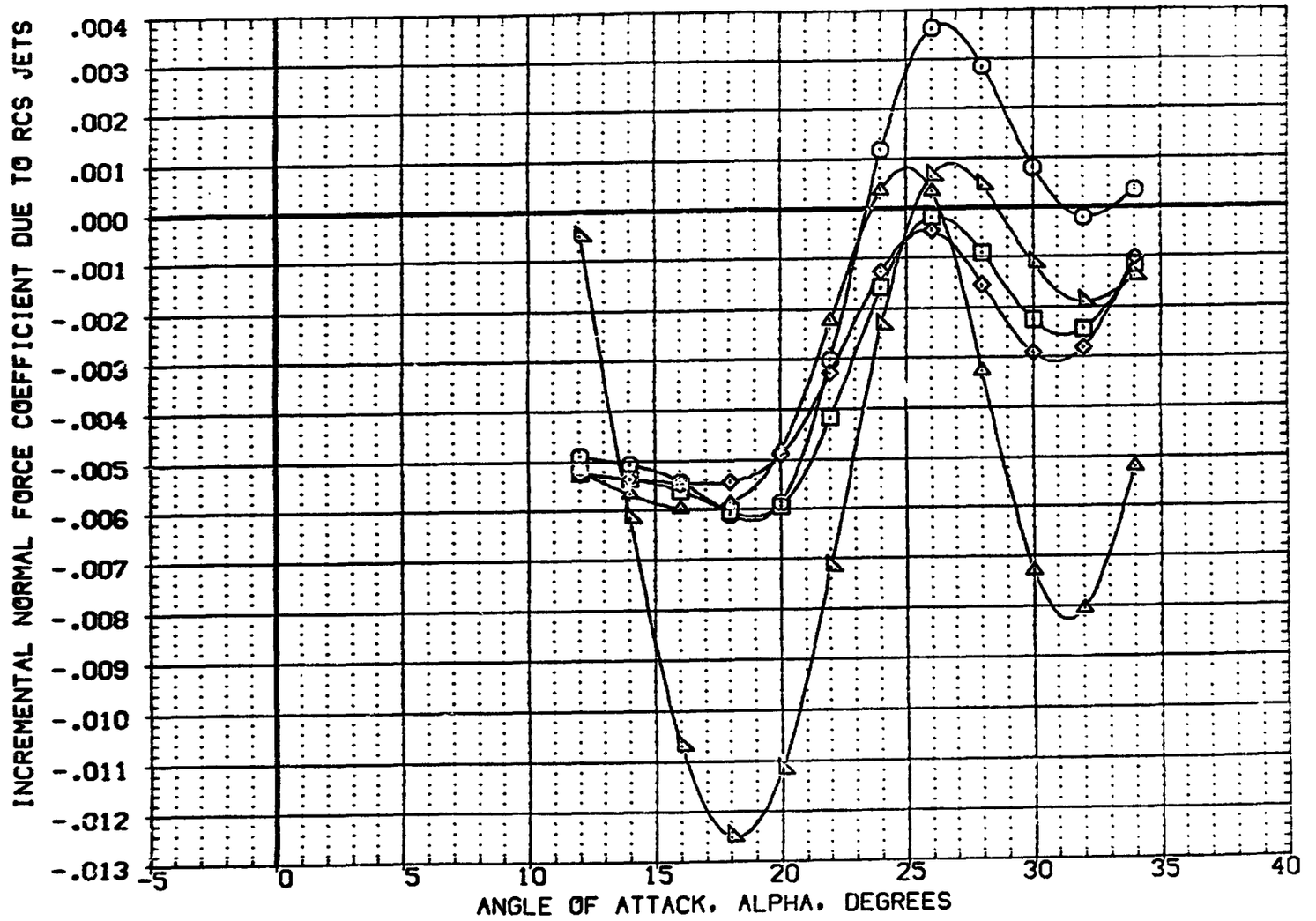
EFFECT OF PITCH/ROLL JETS FIRING TOWARD VERT. TAIL (RIGHT-SIDE JETS ONLY)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM072)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	37.000	1.000
(APM073)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	100.000	1.000
(APM075)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	199.000	1.000
(APM076)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	329.000	1.000
(APM078)	◁	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9610	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



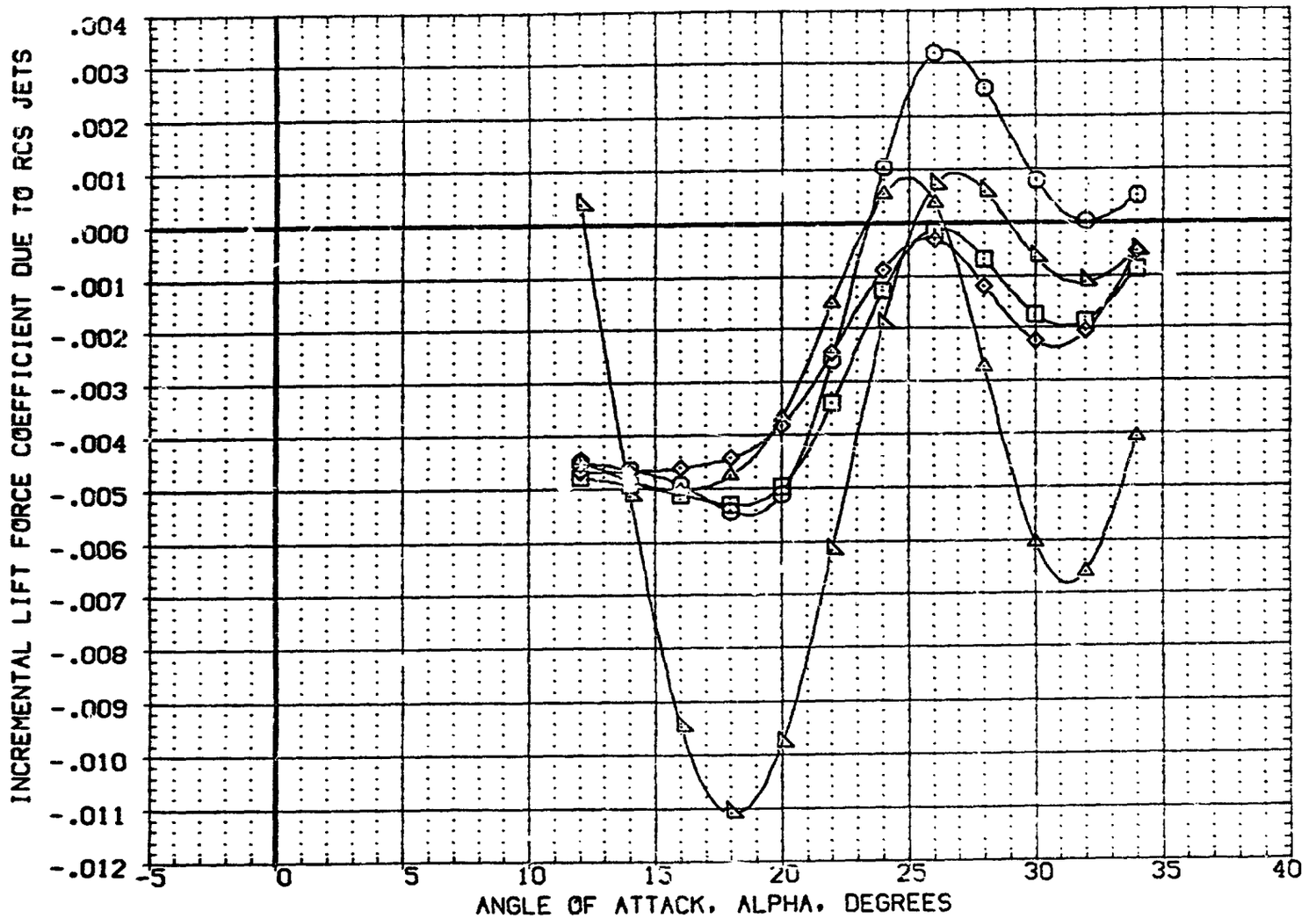
INTERFERENCE EFFECTS OF RIGHT-SIDE PITCH/ROLL JETS FIRING TOWARD VERT. TAIL

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM072)	○	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF.	BWTN41	.000	37.000	1.000
(APM073)	□	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF.	BWTN41	.000	100.000	1.000
(APM075)	◇	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF.	BWTN41	.000	199.000	1.000
(APM076)	△	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF.	BWTN41	.000	328.000	1.000
(APM078)	▽	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF.	BWTN41	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

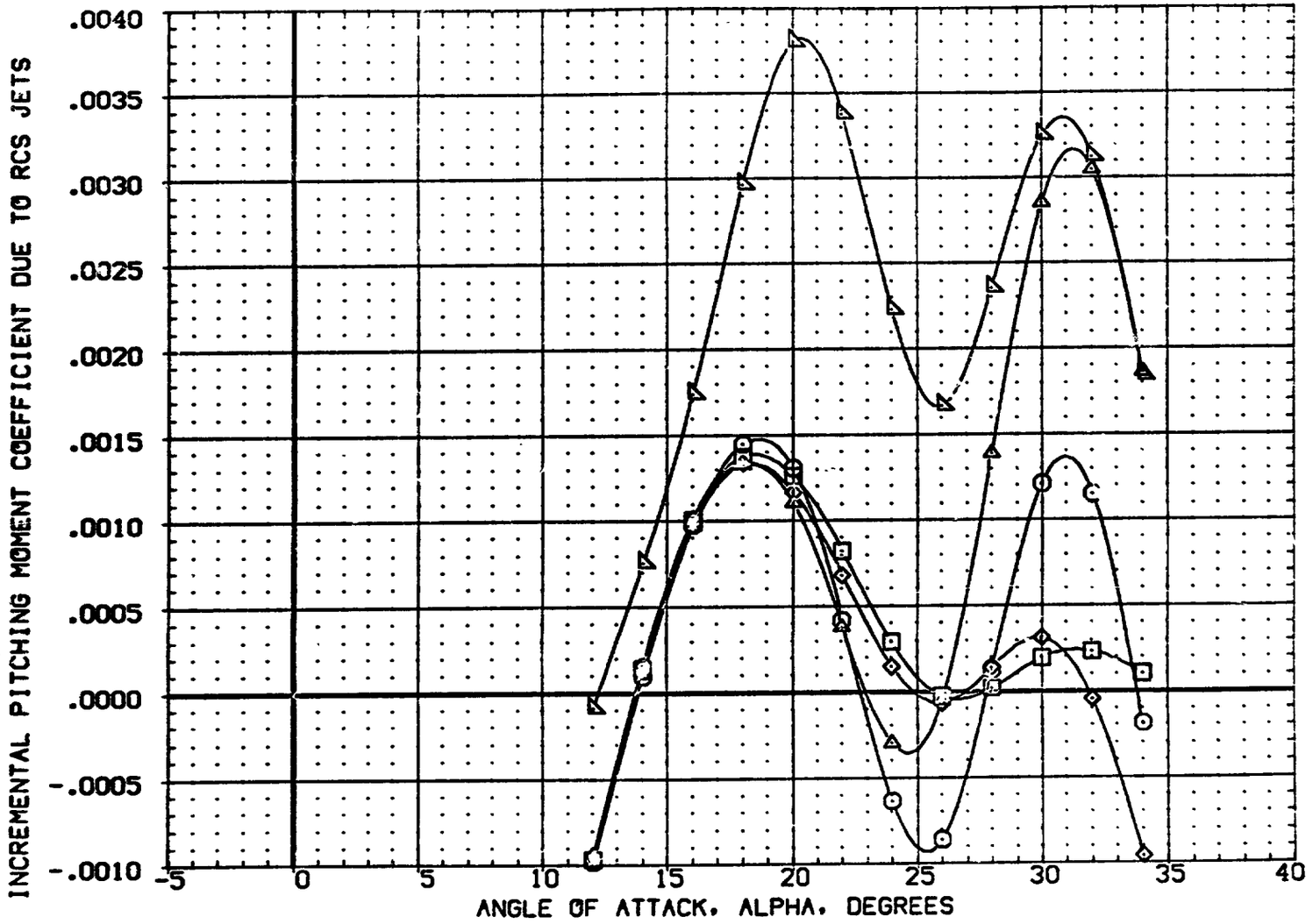


INTERFERENCE EFFECTS OF RIGHT-SIDE PITCH/ROLL JETS FIRING TOWARD VERT. TAIL

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM072) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	37.000	1.000
(APM073) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	100.000	1.000
(APM075) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	199.000	1.000
(APM076) △	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	328.000	1.000
(APM078) ▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



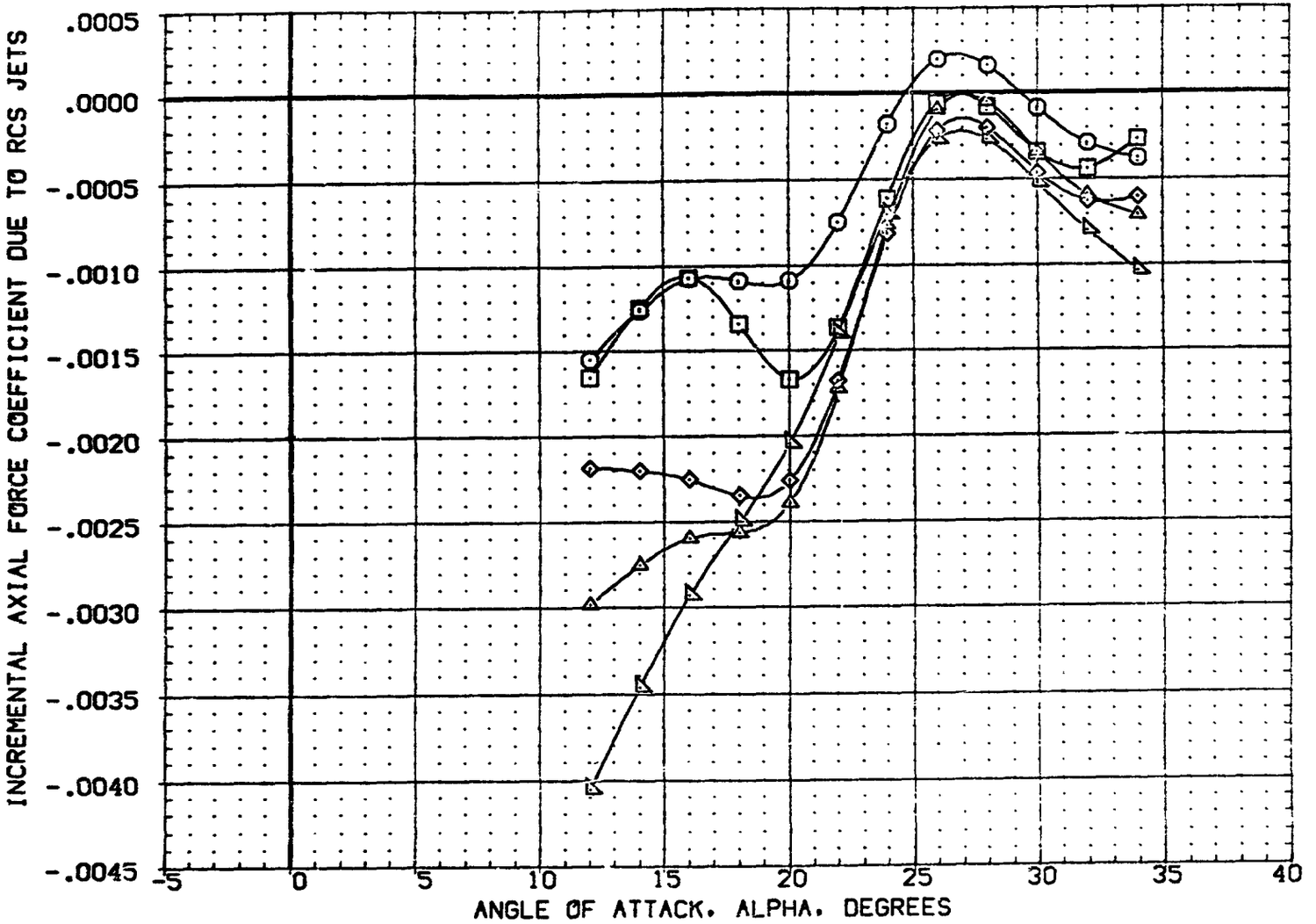
INTERFERENCE EFFECTS OF RIGHT-SIDE PITCH/ROLL JETS FIRING TOWARD VERT. TAIL

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM072)	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF. BWTN41	.000	37.000	1.000
(APM073)	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF. BWTN41	.000	100.000	1.000
(APM075)	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF. BWTN41	.000	199.000	1.000
(APM076)	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF. BWTN41	.000	328.000	1.000
(APM078)	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF. BWTN41	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

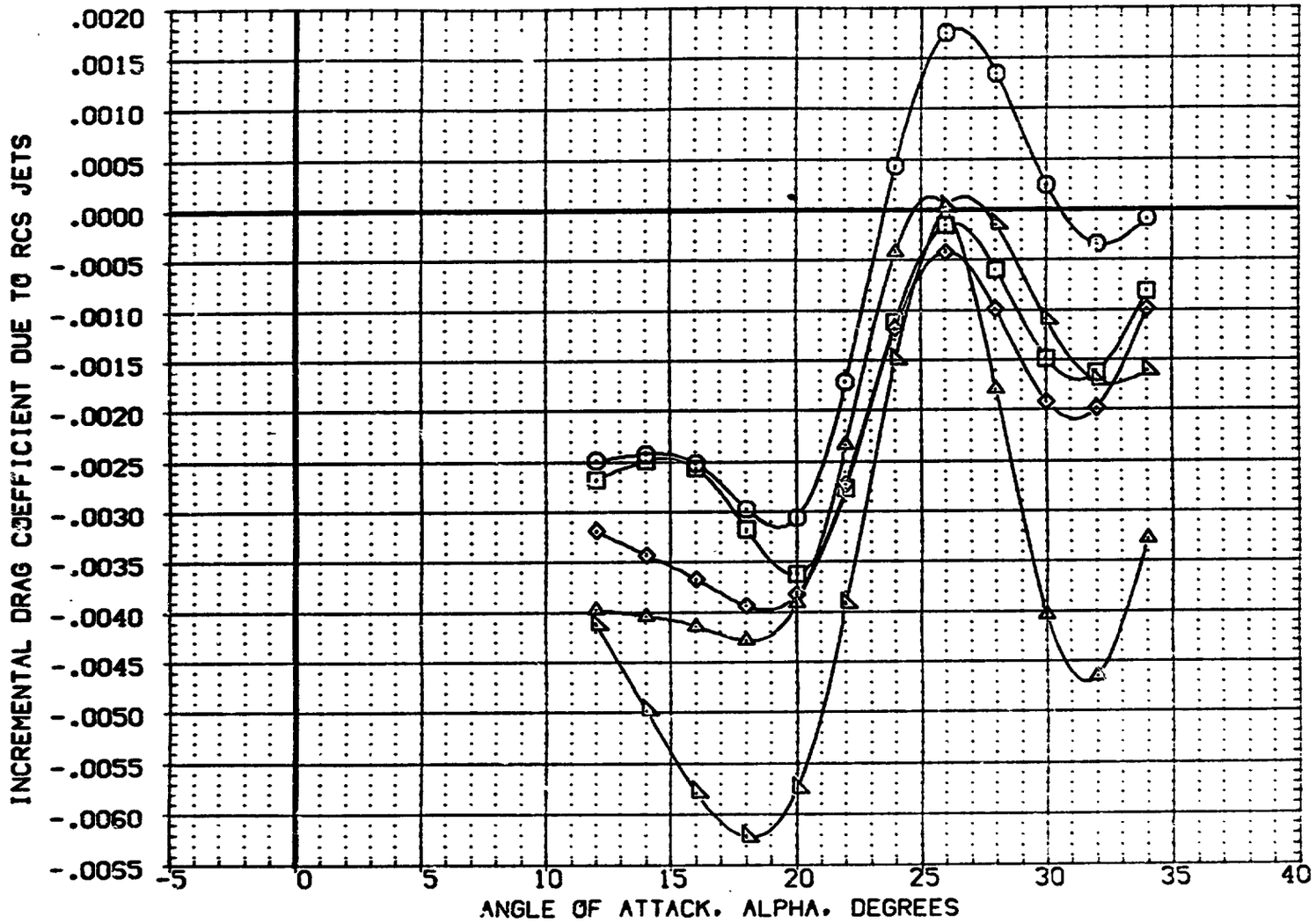


INTERFERENCE EFFECTS OF RIGHT-SIDE PITCH/ROLL JETS FIRING TOWARD VERT. TAIL

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM072)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN41	.000	37.000	1.000
(APM073)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN41	.000	100.000	1.000
(APM075)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN41	.000	199.000	1.000
(APM076)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN41	.000	328.000	1.000
(APM078)	◺	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN41	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

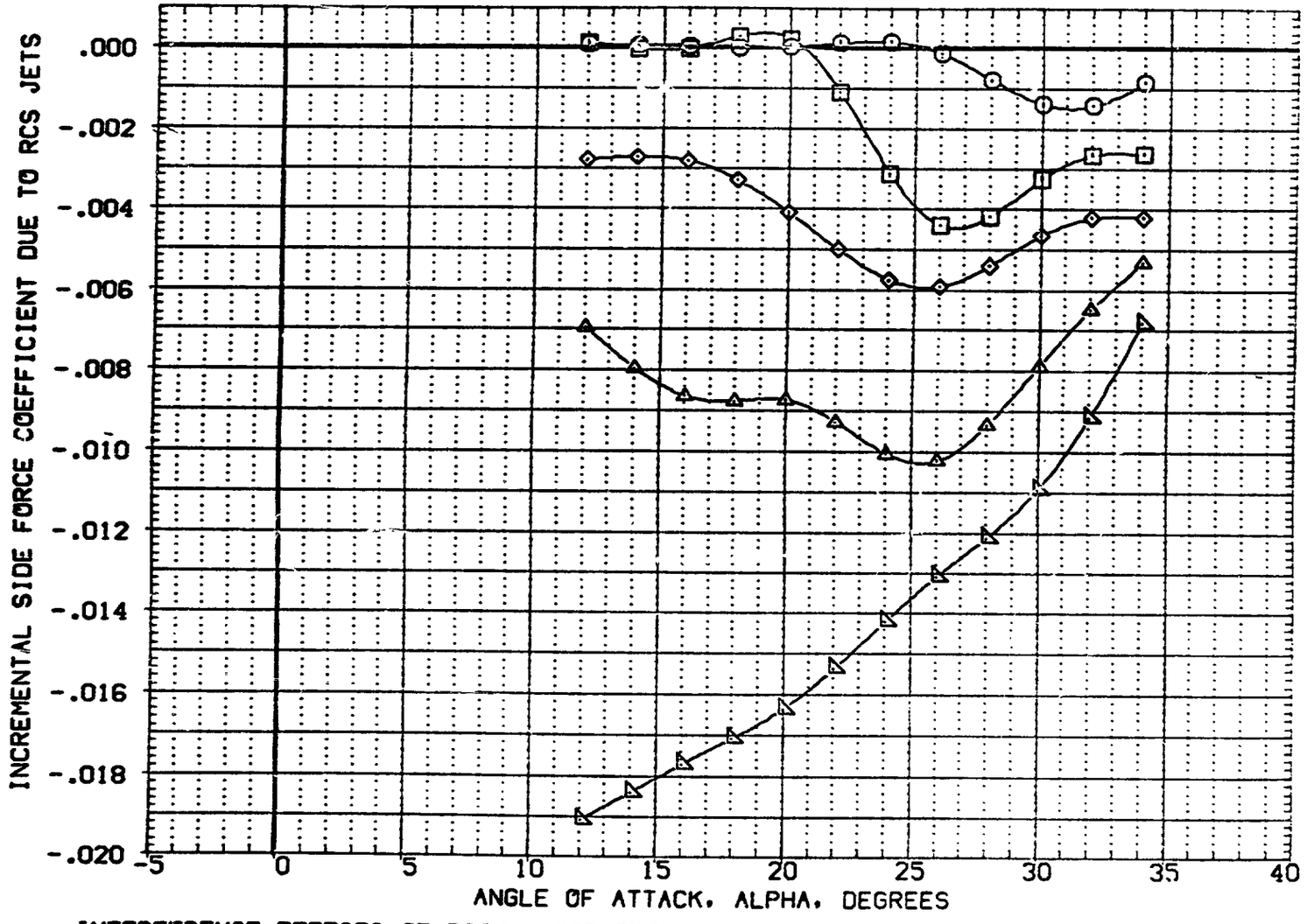


INTERFERENCE EFFECTS OF RIGHT-SIDE PITCH/ROLL JETS FIRING TOWARD VERT. TAIL

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM072)	○	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF. BWTN41	.000	37.000	1.000
(APM073)	□	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF. BWTN41	.000	100.000	1.000
(APM075)	◇	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF. BWTN41	.000	199.000	1.000
(APM076)	△	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF. BWTN41	.000	328.000	1.000
(APM078)	▽	MA-7.UPWT 1031.ROCKWELL PRR CRB. CONF. BWTN41	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

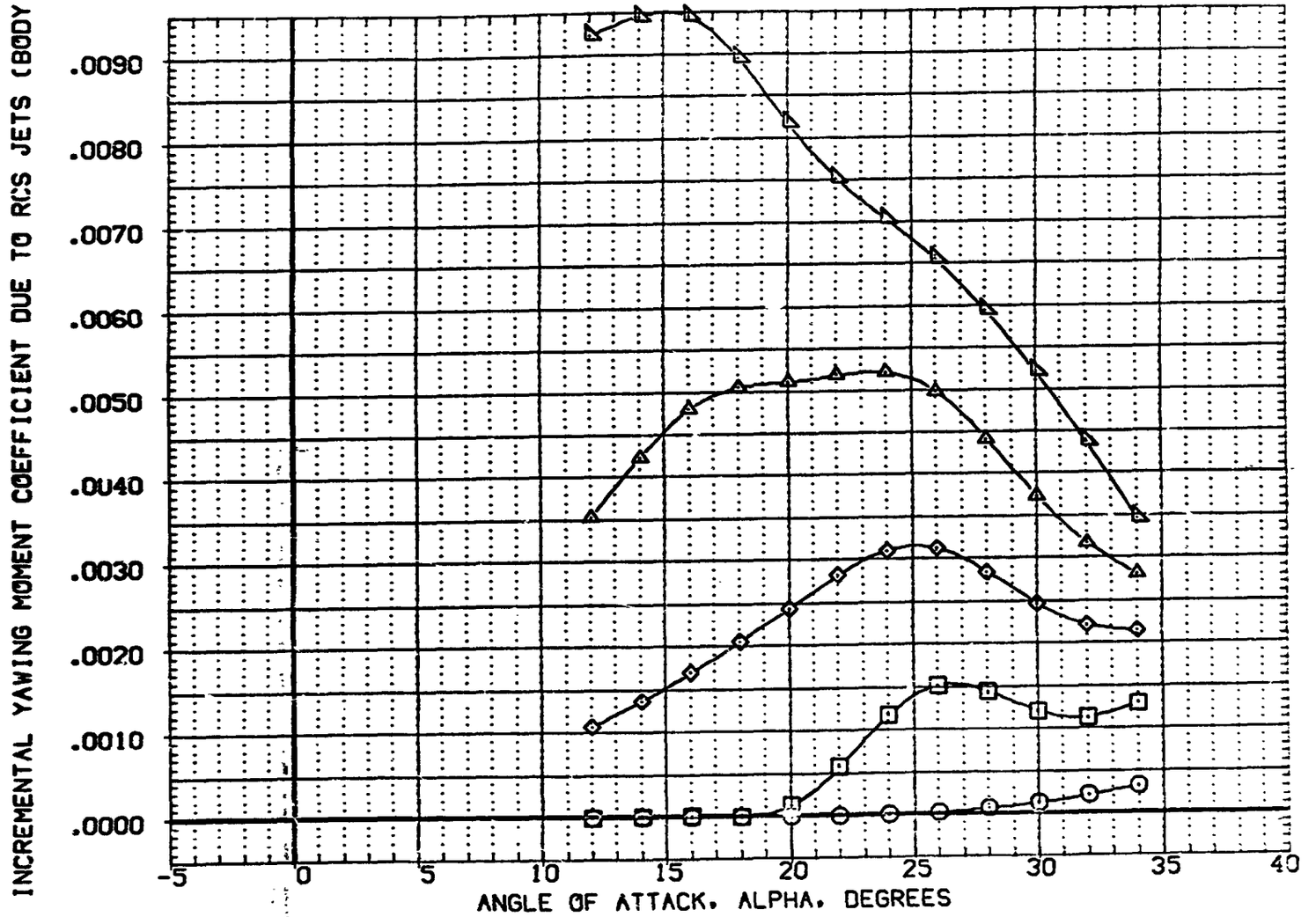


INTERFERENCE EFFECTS OF RIGHT-SIDE PITCH/ROLL JETS FIRING TOWARD VERT. TAIL

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM072)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN41	.000	37.000	1.000
(APM073)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN41	.000	100.000	1.000
(APM075)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN41	.000	199.000	1.000
(APM076)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN41	.000	328.000	1.000
(APM078)	▽	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BWTN41	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



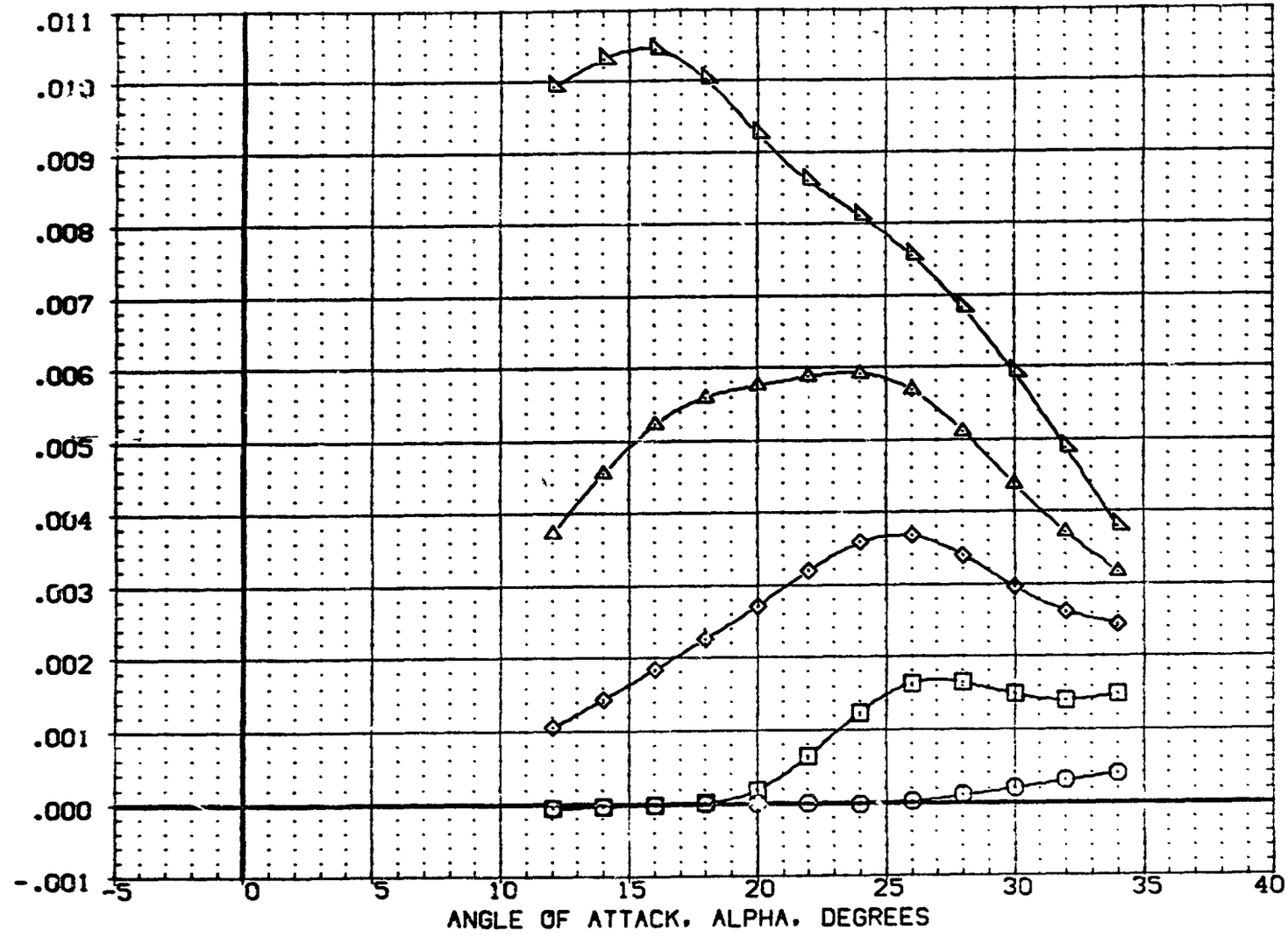
INTERFERENCE EFFECTS OF RIGHT-SIDE PITCH/ROLL JETS FIRING TOWARD VERT. TAIL

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM072)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	37.000	1.000
(APM073)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	100.000	1.000
(APM075)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	199.000	1.000
(APM076)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	328.000	1.000
(APM078)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

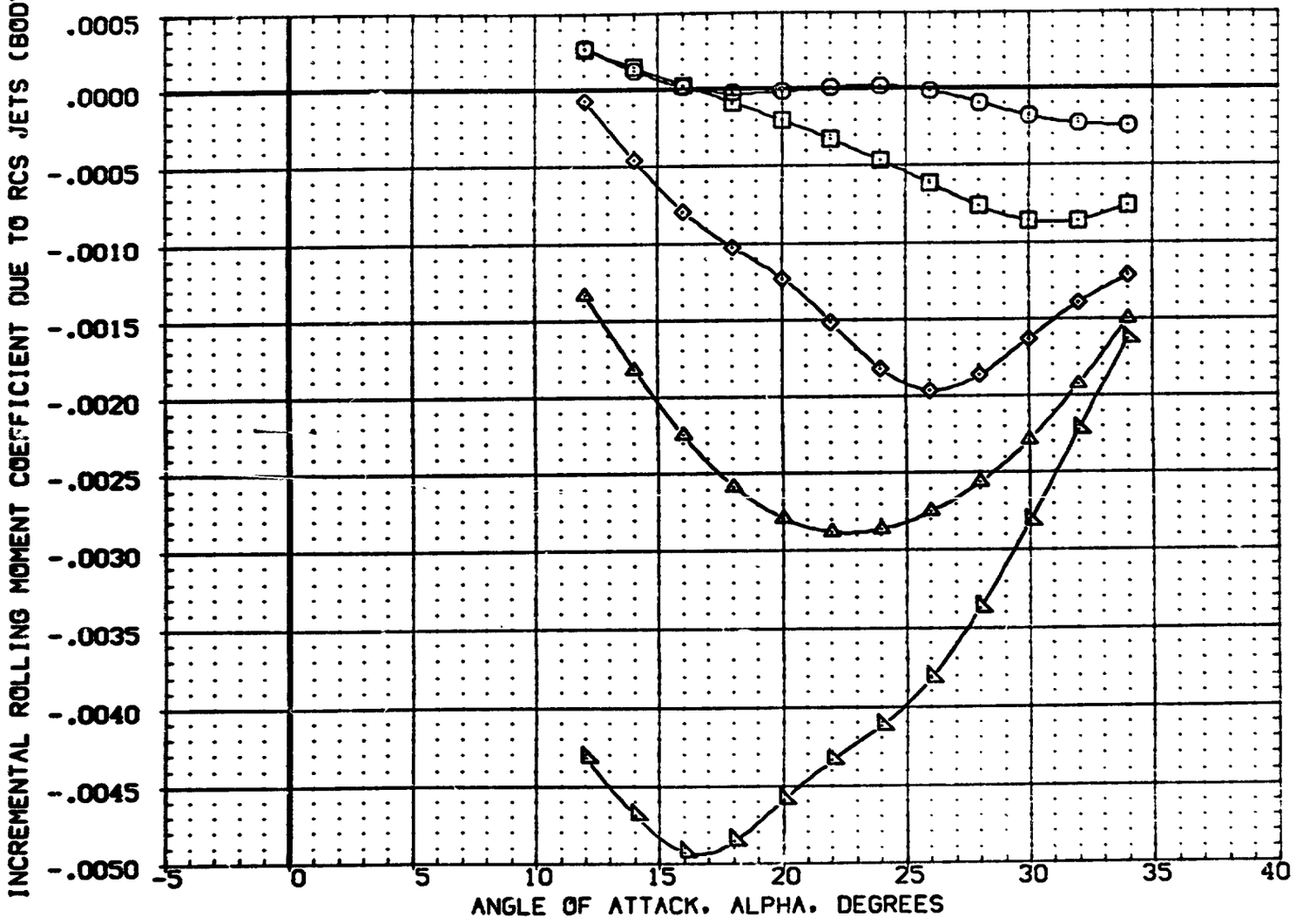


INTERFERENCE EFFECTS OF RIGHT-SIDE PITCH/ROLL JETS FIRING TOWARD VERT. TAIL

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM072)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	37.000	1.000
(APM073)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	100.000	1.000
(APM075)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	199.000	1.000
(APM076)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	328.000	1.000
(APM078)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



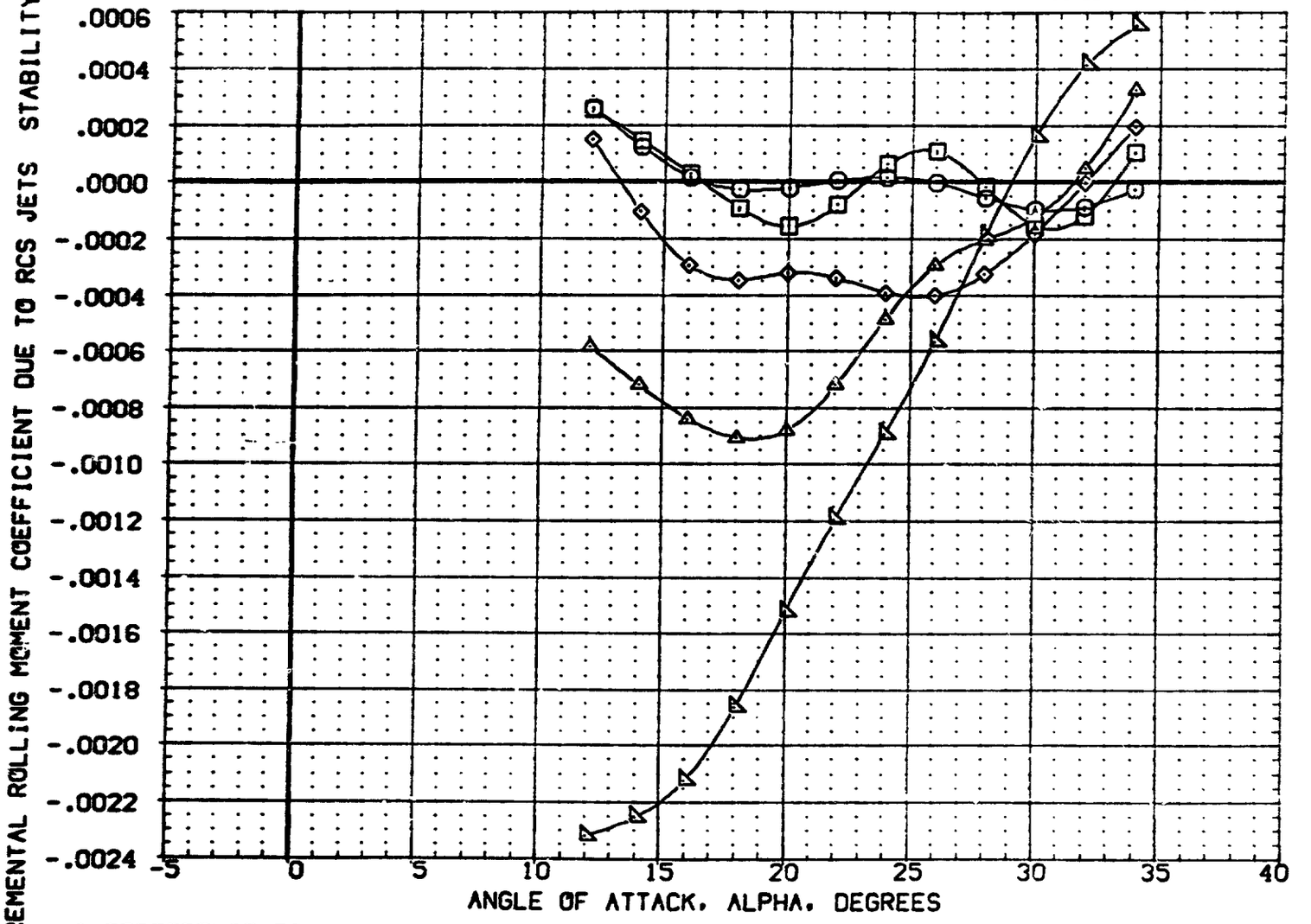
INTERFERENCE EFFECTS OF RIGHT-SIDE PITCH/ROLL JETS FIRING TOWARD VERT. TAIL

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM072)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	37.000	1.000
(APM073)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	100.000	1.000
(APM075)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	199.000	1.000
(APM076)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	328.000	1.000
(APM078)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

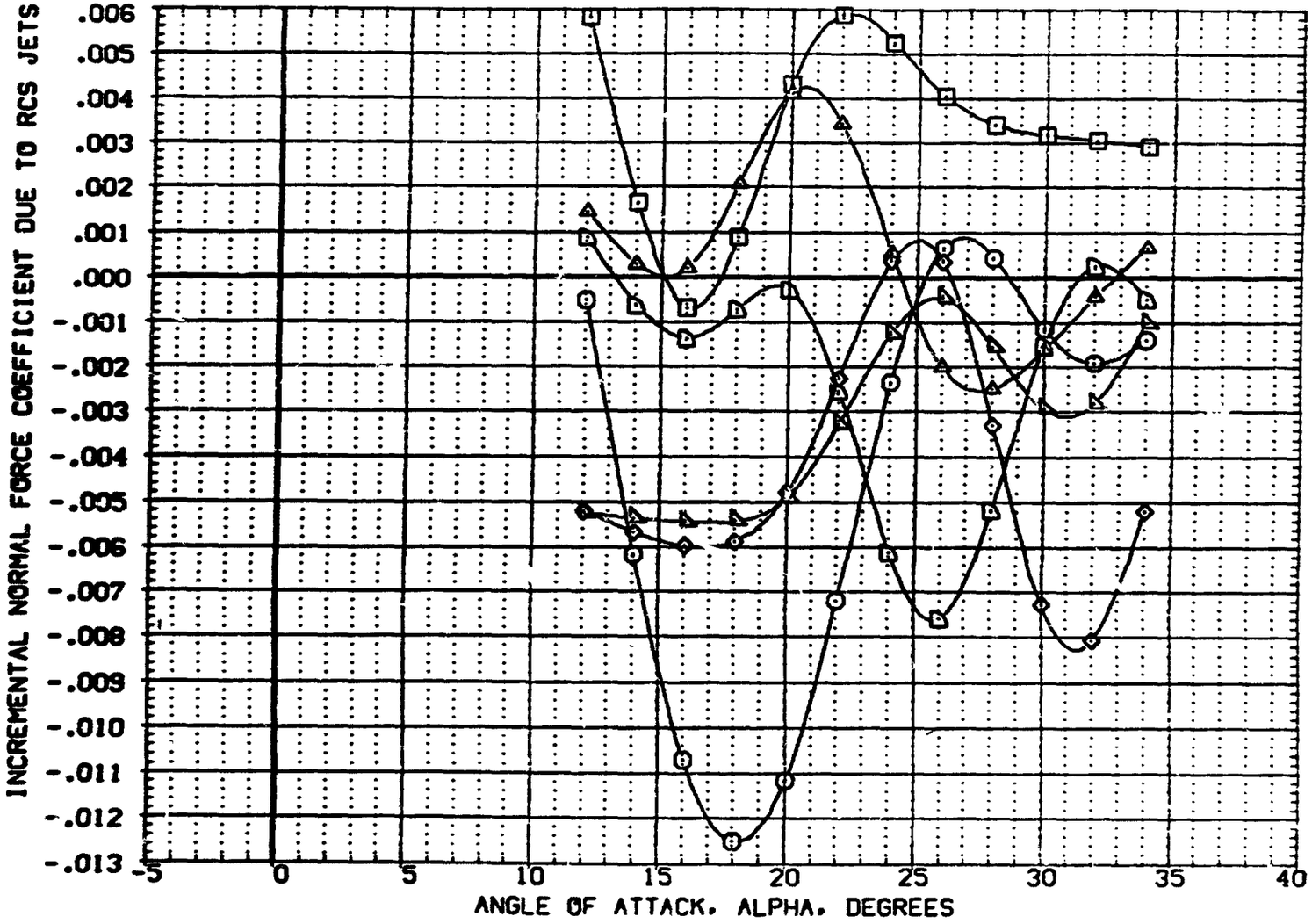


INTERFERENCE EFFECTS OF RIGHT-SIDE PITCH/ROLL JETS FIRING TOWARD VERT. TAIL

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH078)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	600.000	1.000
(APH015)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVN41	.000	600.000	1.000
(APH076)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	328.000	1.000
(APH014)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVN41	.000	328.000	1.000
(APH075)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	199.000	1.000
(APH013)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVN41	.000	199.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



EFFECT OF VERTICAL TAIL ON INTERFERENCE OF UPWARD FIRING NOZZLES

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH078)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	600.000	1.000
(APH015)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVN41	.000	600.000	1.000
(APH076)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	328.000	1.000
(APH014)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVN41	.000	328.000	1.000
(APH075)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	199.000	1.000
(APH013)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVN41	.000	199.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
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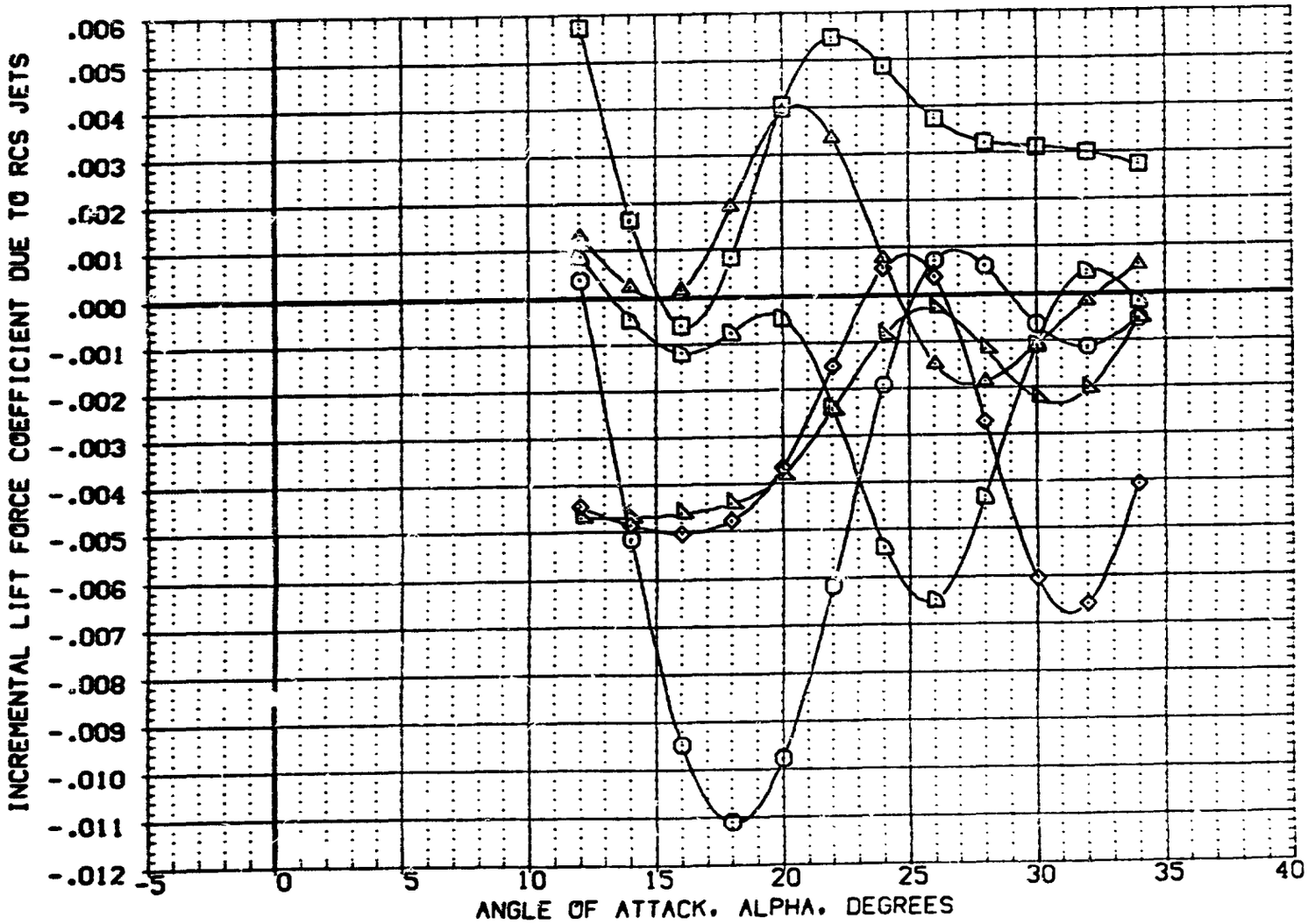
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



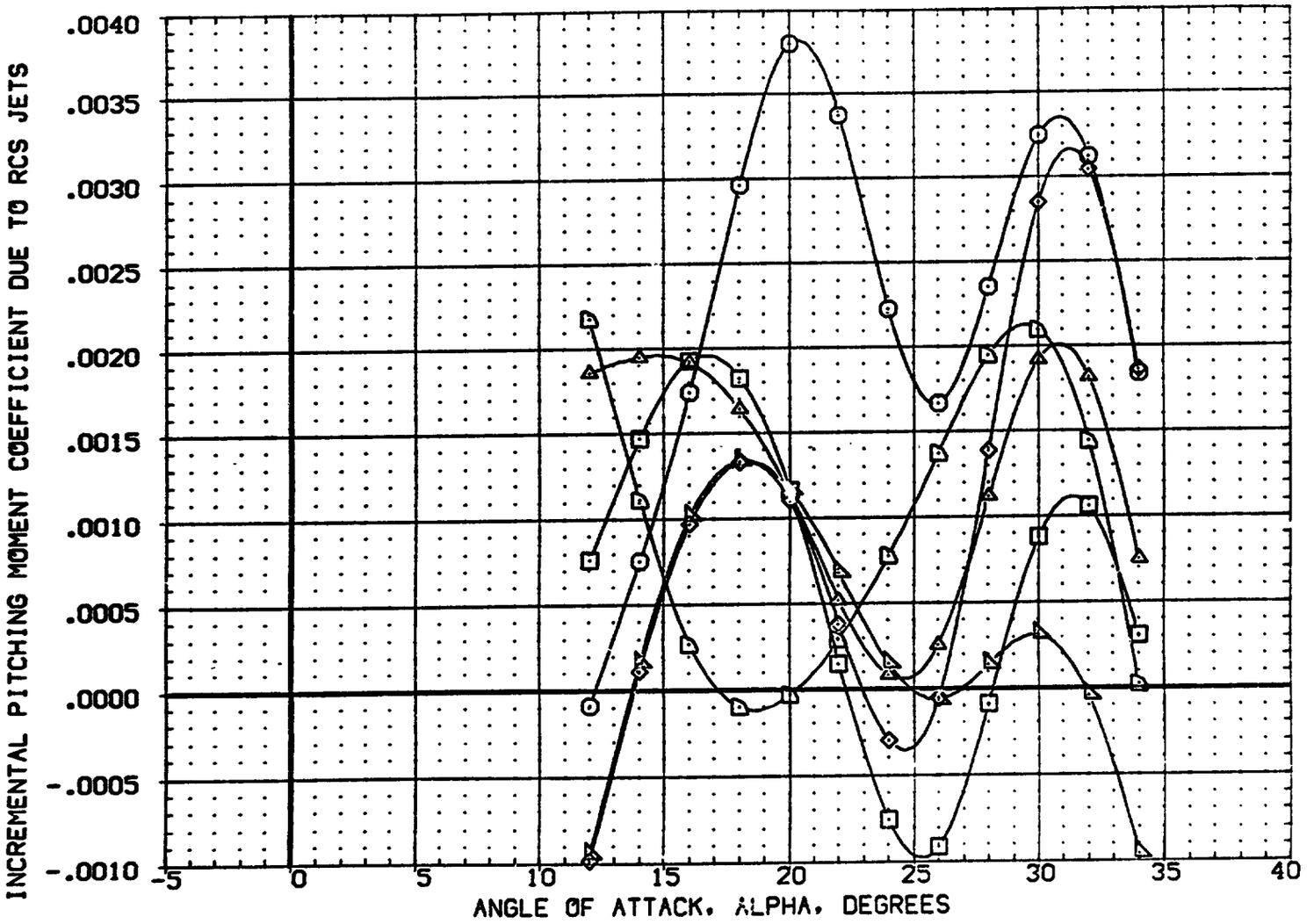
EFFECT OF VERTICAL TAIL ON INTERFERENCE OF UPWARD FIRING NOZZLES

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	OLPO-J	RN/L
(APM078)	MA-7.UPVT 1031.ROCKWELL PRR GRB. CONF. BVTN41	.000	600.000	1.000
(APM015)	MA-7.UPVT 1031.ROCKWELL PRR GRB. CONF. BVN41	.000	600.000	1.000
(APM076)	MA-7.UPVT 1031.ROCKWELL PRR GRB. CONF. BVTN41	.000	328.000	1.000
(APM014)	MA-7.UPVT 1031.ROCKWELL PRR GRB. CONF. BVN41	.000	328.000	1.000
(APM075)	MA-7.UPVT 1031.ROCKWELL PRR GRB. CONF. BVTN41	.000	199.000	1.000
(APM013)	MA-7.UPVT 1031.ROCKWELL PRR GRB. CONF. BVN41	.000	199.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



EFFECT OF VERTICAL TAIL ON INTERFERENCE OF UPWARD FIRING NOZZLES

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM078)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	600.000	1.000
(APM015)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVN41	.000	600.000	1.000
(APM076)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	328.000	1.000
(APM014)	⋈	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVN41	.000	328.000	1.000
(APM075)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	199.000	1.000
(APM013)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVN41	.000	199.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
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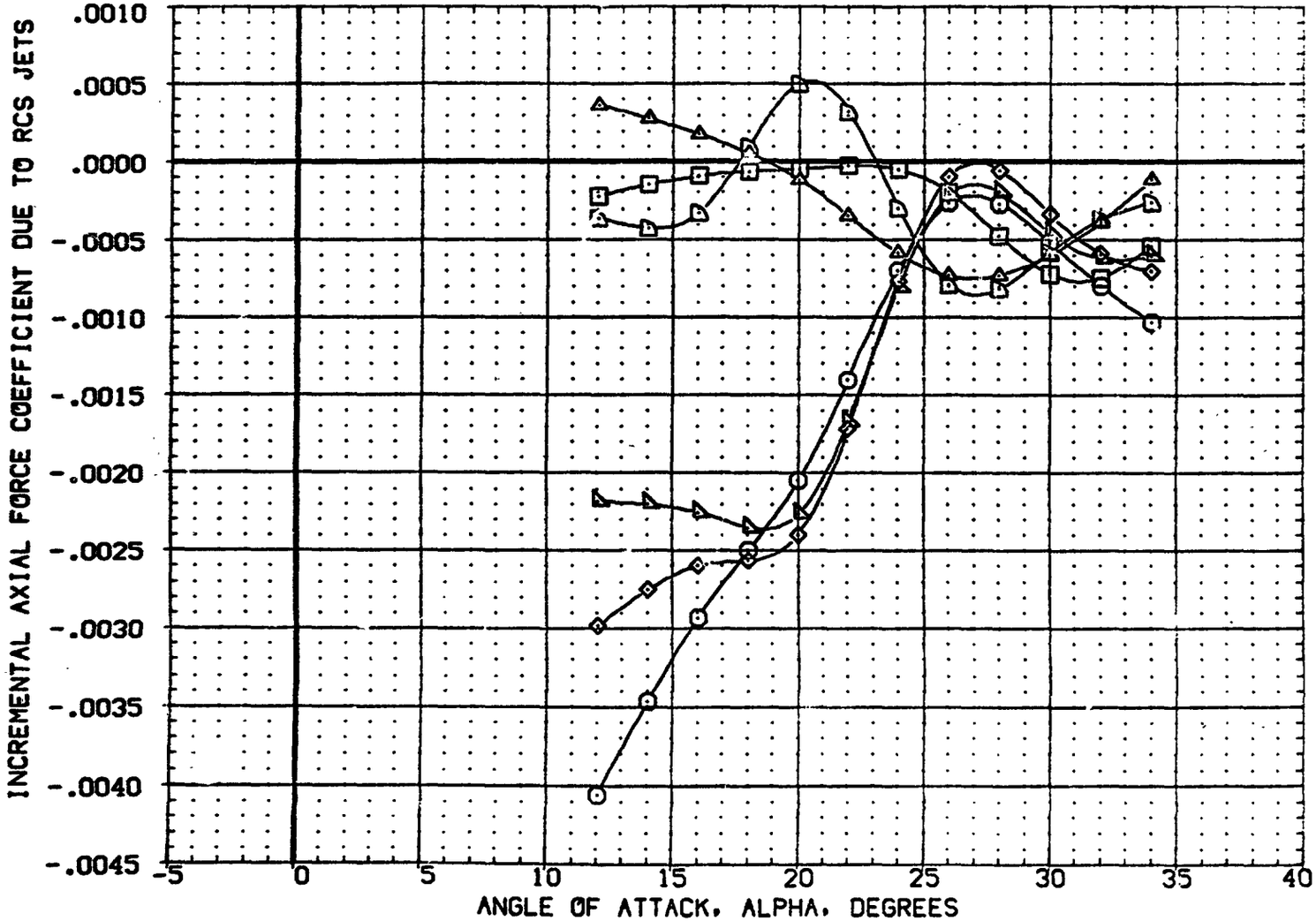
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



EFFECT OF VERTICAL TAIL ON INTERFERENCE OF UPWARD FIRING NOZZLES

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM078)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN41	.000	600.000	1.000
(APM015)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWN41	.000	600.000	1.000
(APM076)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN41	.000	328.000	1.000
(APM014)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWN41	.000	328.000	1.000
(APM075)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWTN41	.000	199.000	1.000
(APM013)	D	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BWN41	.000	199.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
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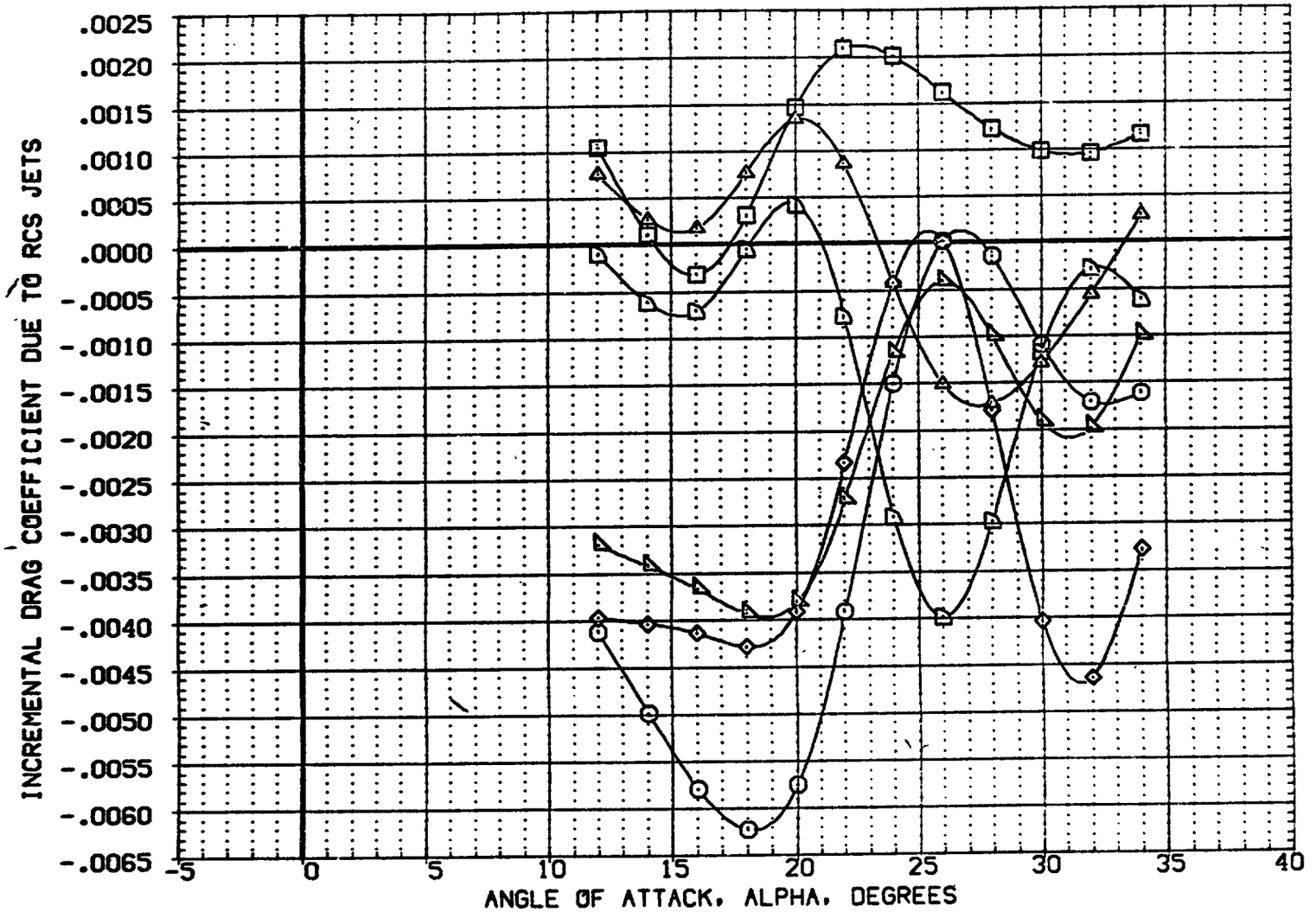
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

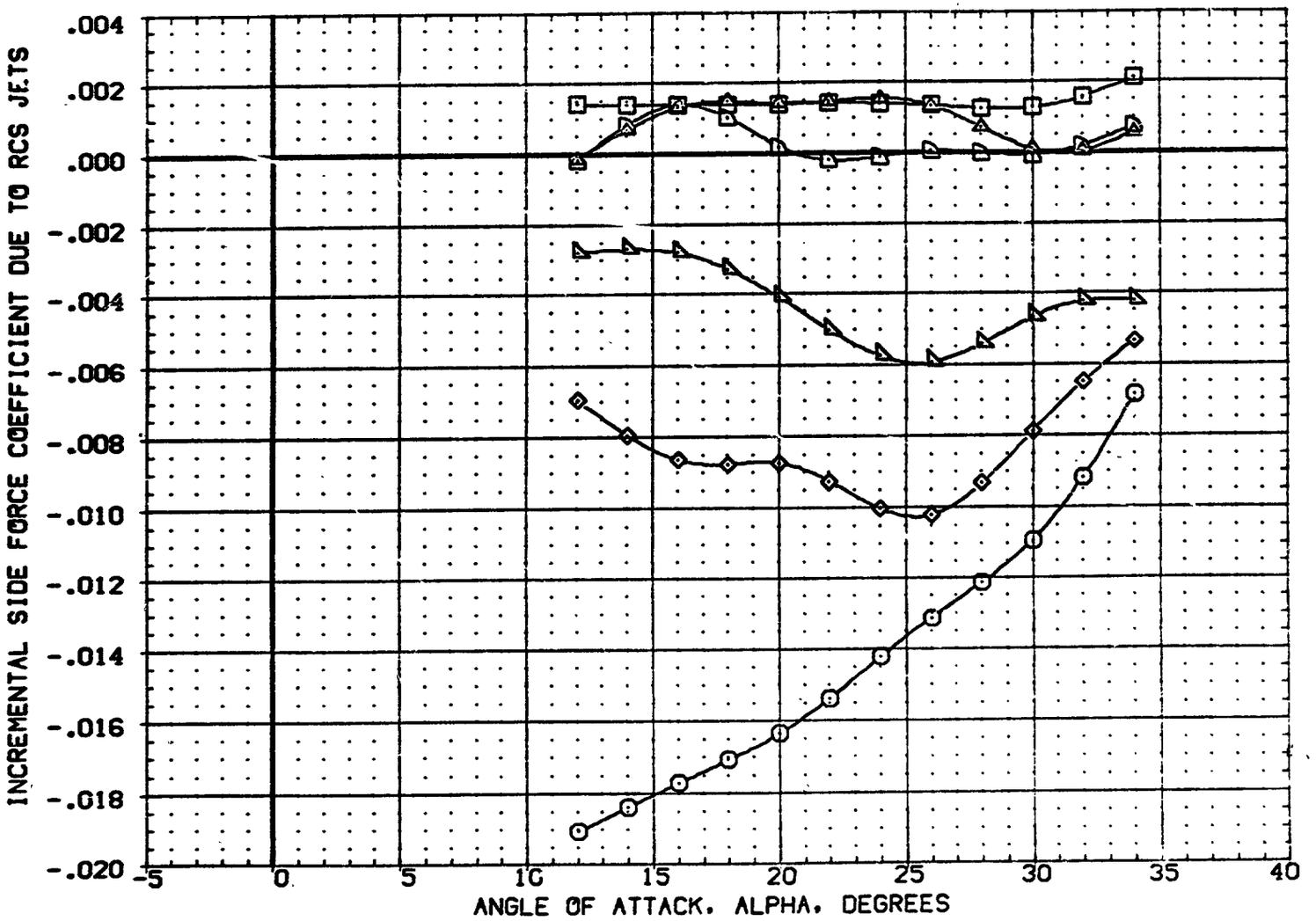


EFFECT OF VERTICAL TAIL ON INTERFERENCE OF UPWARD FIRING NOZZLES

(A)MACH = 4.00

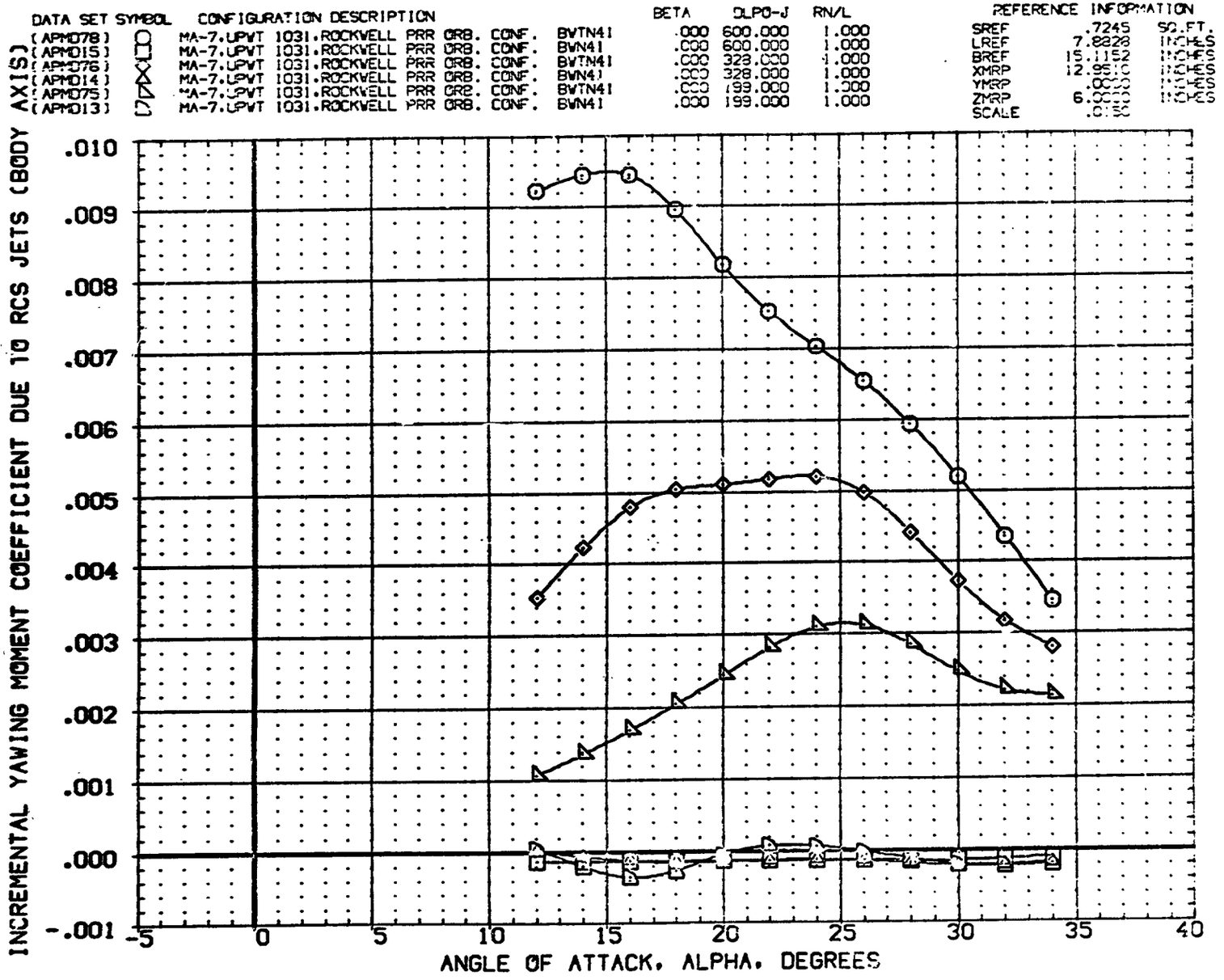
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APMD78)		MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN41	.000	600.000	1.000
(APMD15)		MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVN41	.000	600.000	1.000
(APMD76)		MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN41	.000	328.000	1.000
(APMD14)		MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVN41	.000	328.000	1.000
(APMD75)		MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVTN41	.000	199.000	1.000
(APMD13)		MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF.	BVN41	.000	199.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



EFFECT OF VERTICAL TAIL ON INTERFERENCE OF UPWARD FIRING NOZZLES

(A)MACH = 4.00

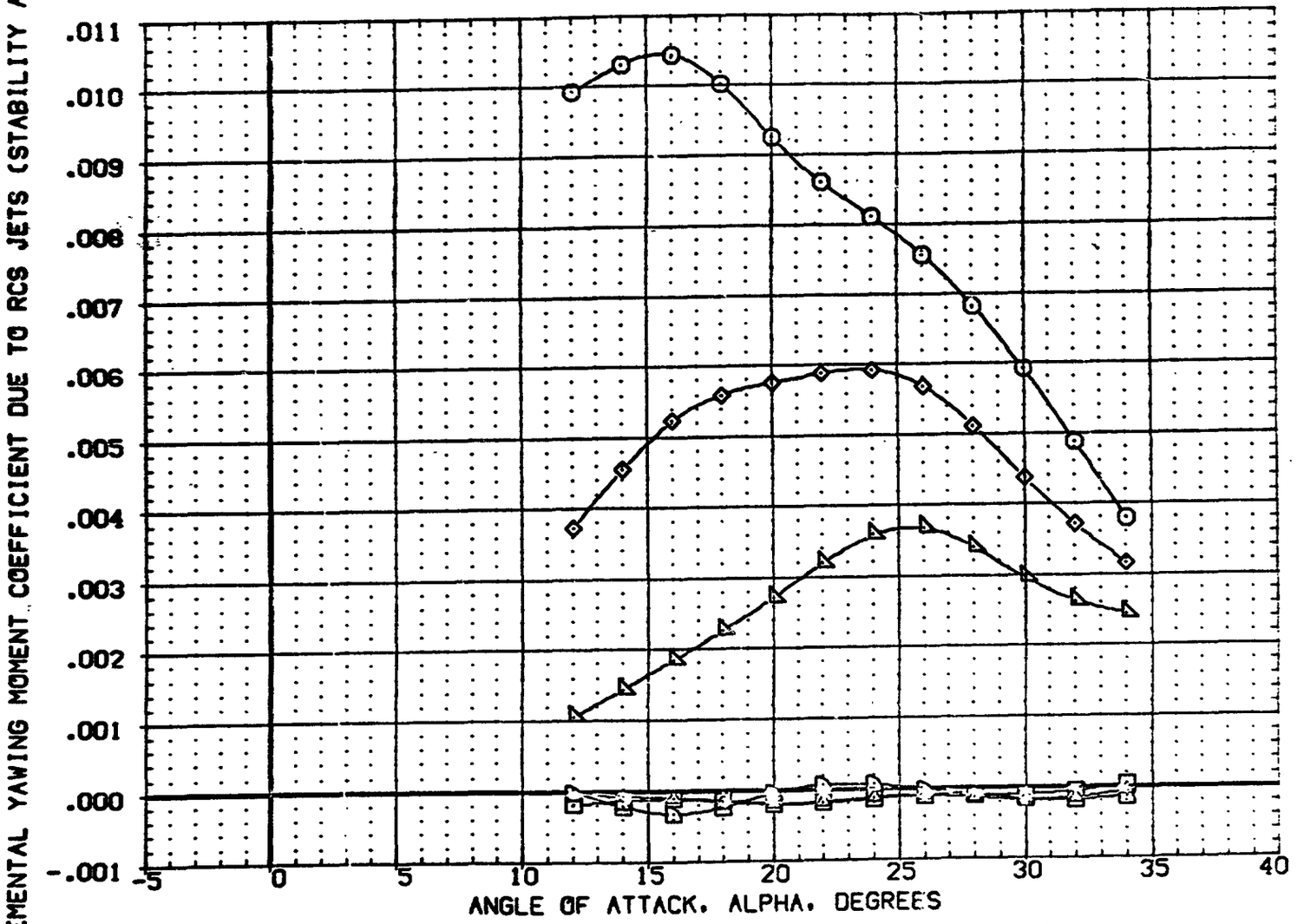


EFFECT OF VERTICAL TAIL ON INTERFERENCE OF UPWARD FIRING NOZZLES

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APH078)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	600.000	1.000
(APH015)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVN41	.000	600.000	1.000
(APH076)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	328.000	1.000
(APH014)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVN41	.000	328.000	1.000
(APH075)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	199.000	1.000
(APH013)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVN41	.000	199.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

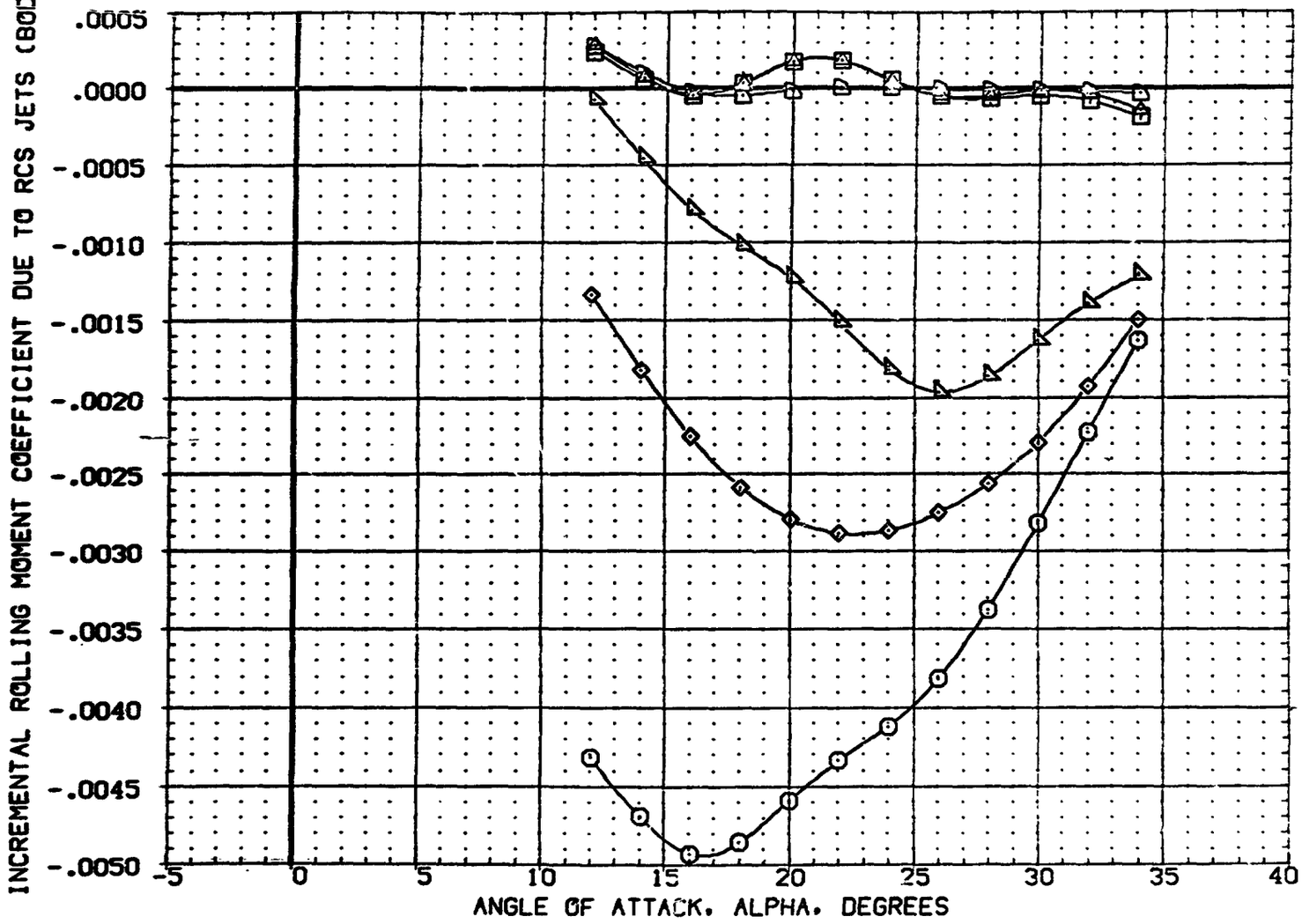


EFFECT OF VERTICAL TAIL ON INTERFERENCE OF UPWARD FIRING NOZZLES

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM078)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	600.000	1.000
(APM015)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVN41	.000	600.000	1.000
(APM076)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	328.000	1.000
(APM014)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVN41	.000	328.000	1.000
(APM075)	◁	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVTN41	.000	199.000	1.000
(APM013)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BVN41	.000	199.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

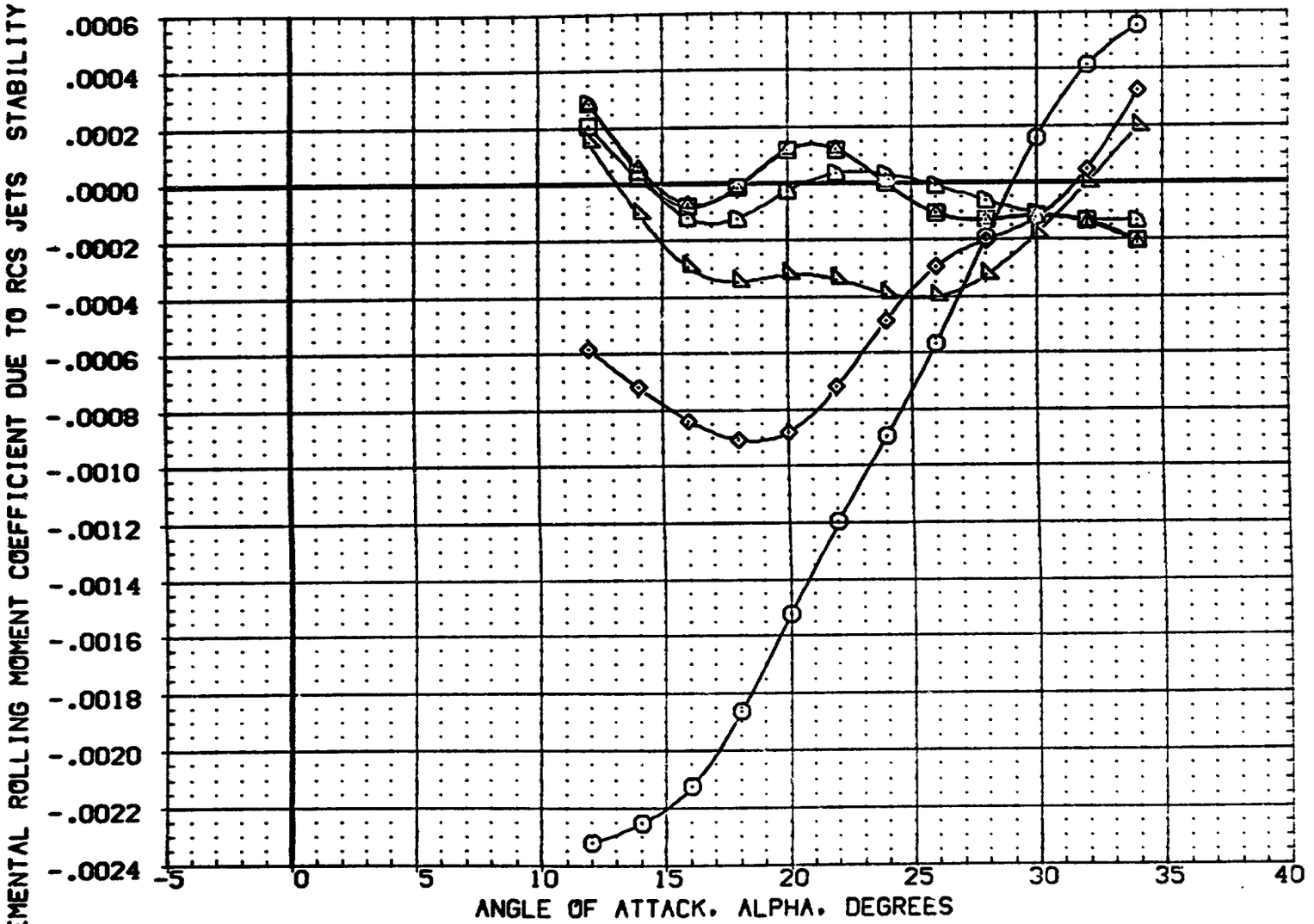


EFFECT OF VERTICAL TAIL ON INTERFERENCE OF UPWARD FIRING NOZZLES

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM078) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	600.000	1.000
(APM015) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVN41	.000	600.000	1.000
(APM076) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	328.000	1.000
(APM014) △	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVN41	.000	328.000	1.000
(APM075) ▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVTN41	.000	199.000	1.000
(APM013) ▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BVN41	.000	199.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



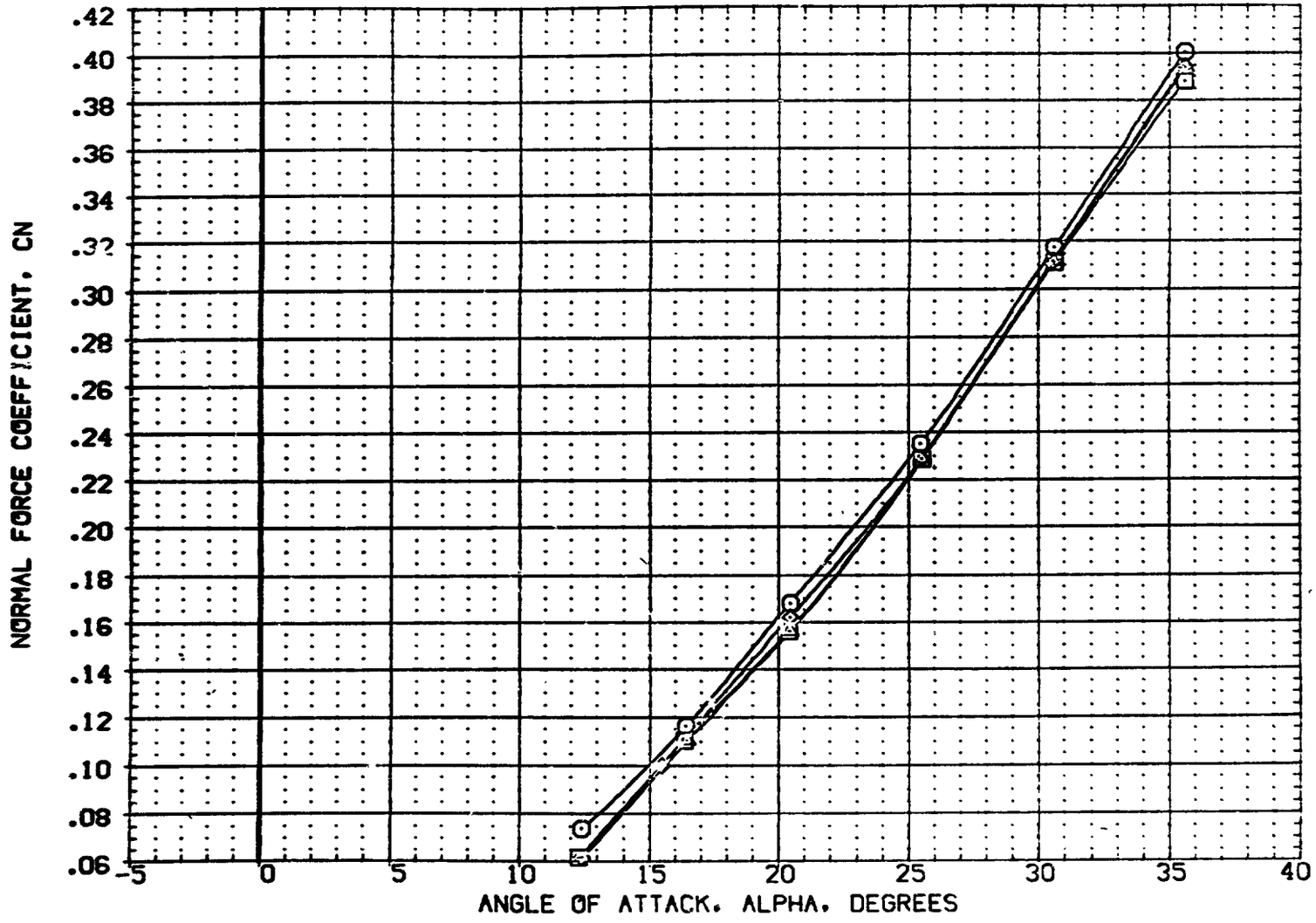
EFFECT OF VERTICAL TAIL ON INTERFERENCE OF UPWARD FIRING NOZZLES

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM004)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	.000	1.000
(CPM001)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN1	.000	37.000	1.000
(CPM002)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN1	.000	328.000	1.000
(CPM003)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN1	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



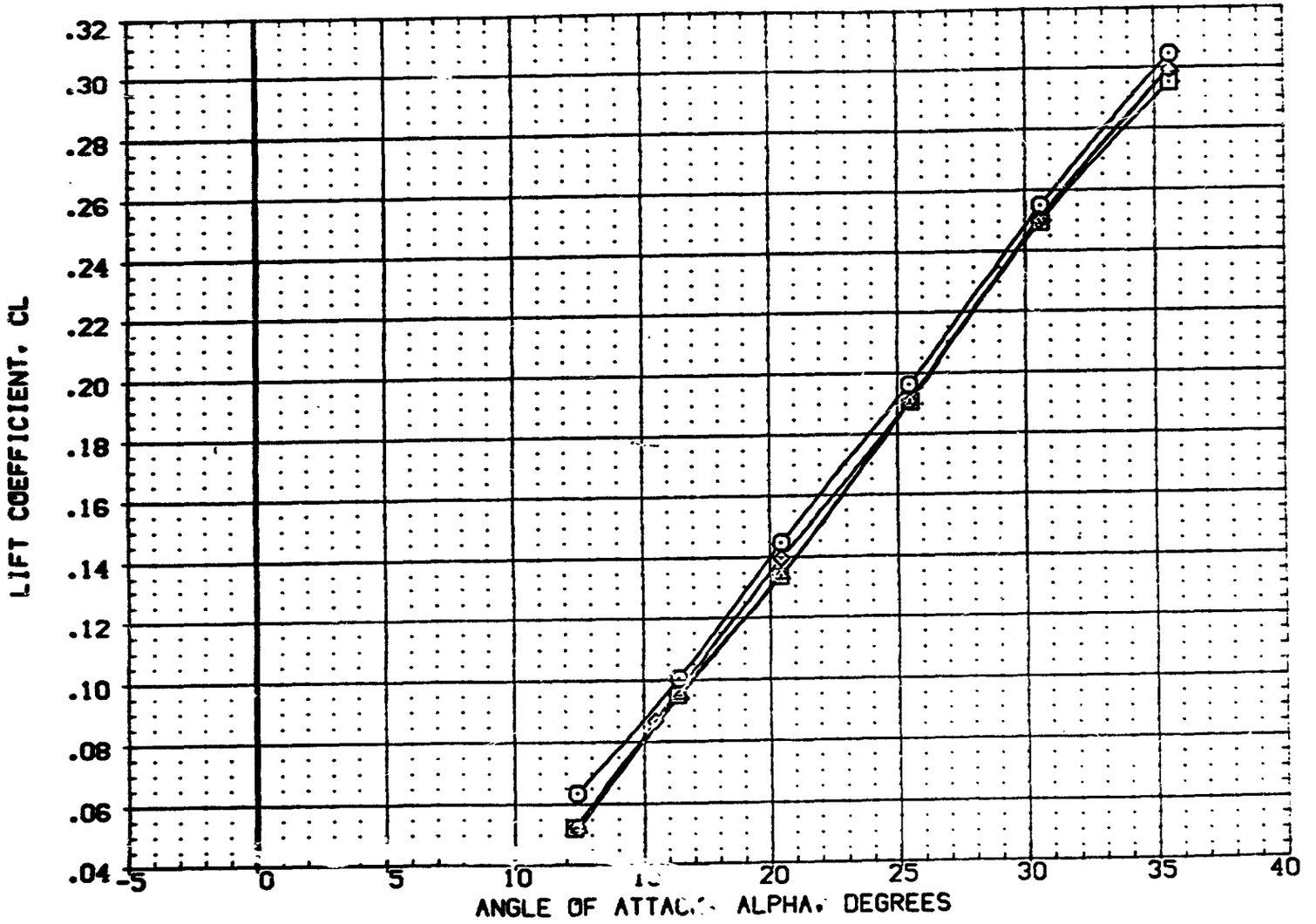
EFFECT OF YAW JET PRESSURE WITH WING OFF

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM004) ○	MA-7.1PVT 1031.ROCKWELL PRR CRB. CONF. BTN40	.000	.000	1.000
(CPM001) □	MA-7.1PVT 1031.ROCKWELL PRR CRB. CONF. BTN1	.000	37.000	1.000
(CPM002) ⊠	MA-7.1PVT 1031.ROCKWELL PRR CRB. CONF. BTN1	.000	328.000	1.000
(CPM003) △	MA-7.1PVT 1031.ROCKWELL PRR CRB. CONF. BTN1	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



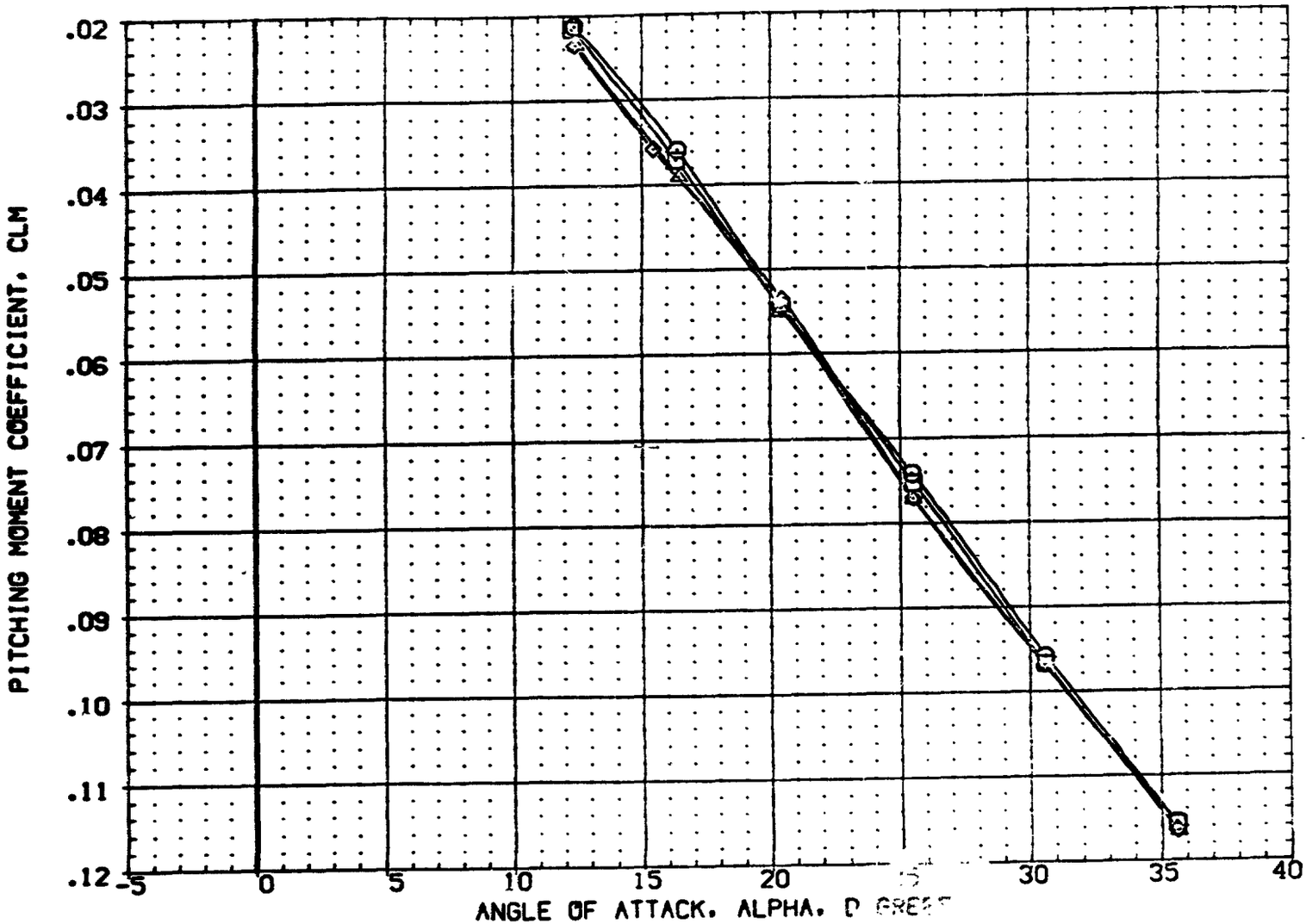
EFFECT OF YAW JET PRESSURE WITH WING OFF

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM004)	○	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BTN40	.000	.000	1.000
(CPM001)	□	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BTN1	.000	37.000	1.000
(CPM002)	⊠	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BTN1	.000	328.000	1.000
(CPM003)	△	MA-7.UPVT 1031.ROCKWELL PRR CRB. CONF. BTN1	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



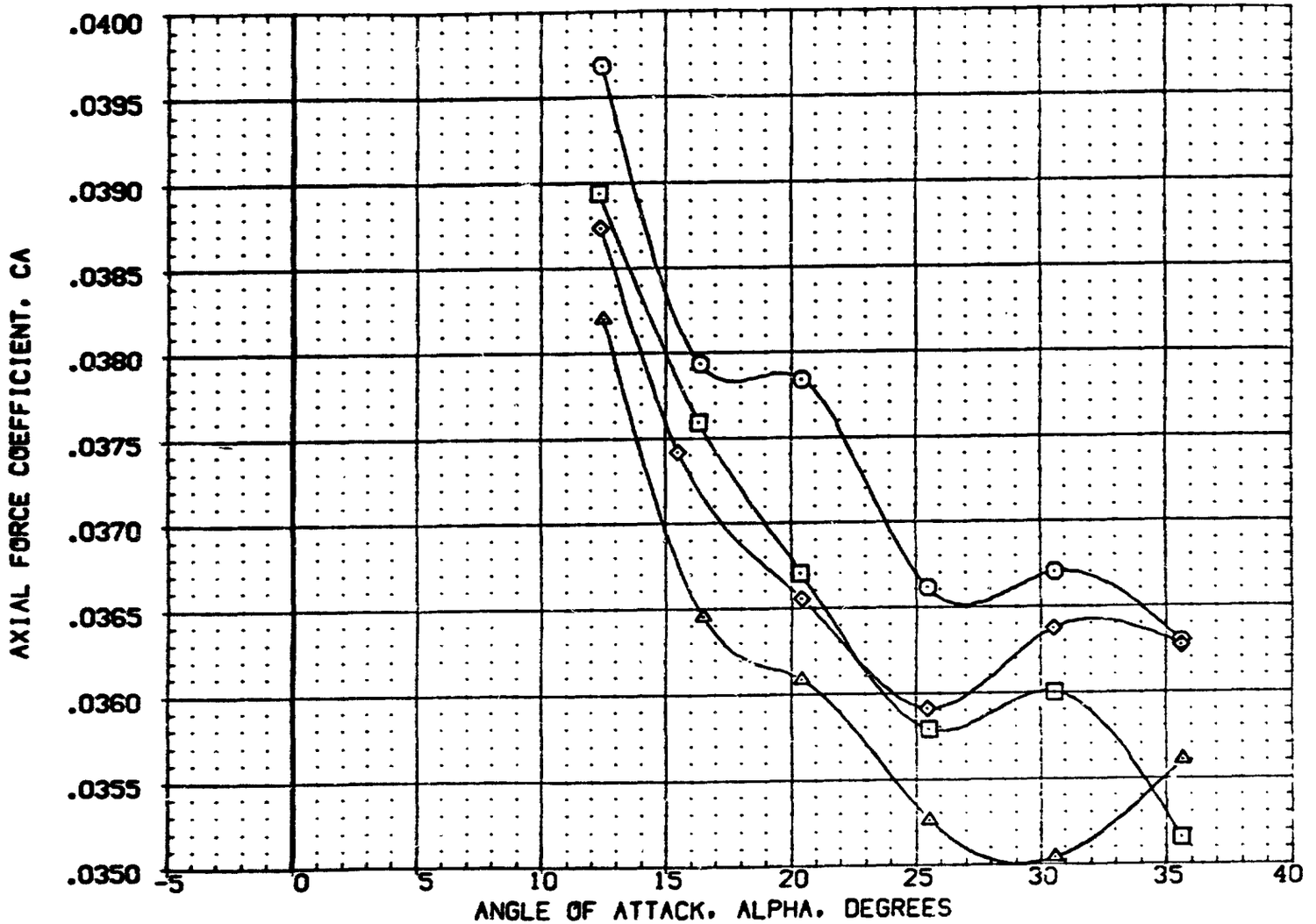
EFFECT OF YAW JET PRESSURE WITH WING OFF

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM004) ○	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BTN40	.000	.000	1.000
(CPM001) □	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BTN1	.000	37.000	1.000
(CPM002) ◇	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BTN1	.000	328.000	1.000
(CPM003) △	MA-7.UPVT 1031.ROCKVELL PRR ORB. CONF. BTN1	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



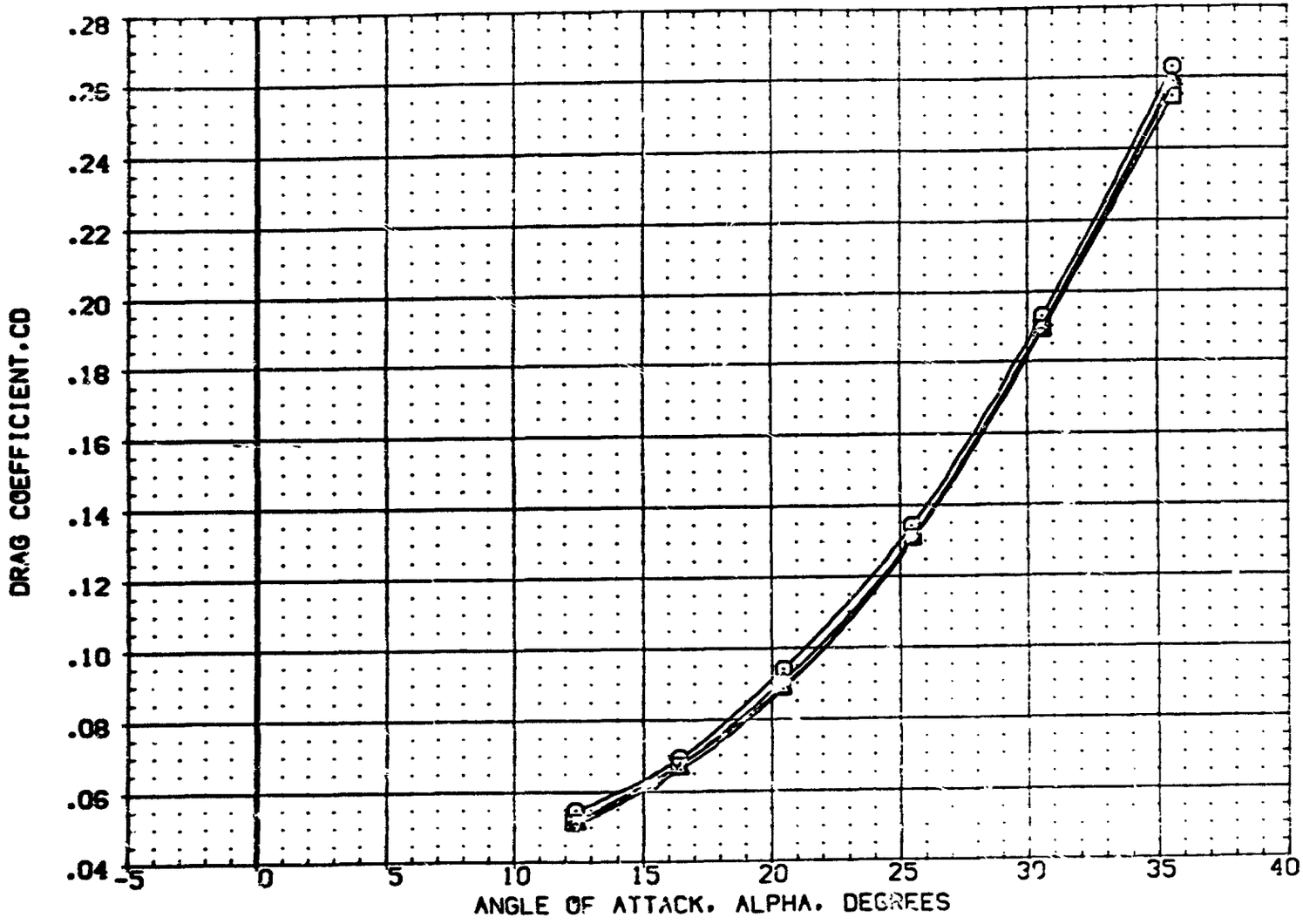
EFFECT OF YAW JET PRESSURE WITH WING OFF

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(OPM004)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	.000	1.000
(OPM001)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN1	.000	37.000	1.000
(OPM002)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN1	.000	328.000	1.000
(OPM003)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN1	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

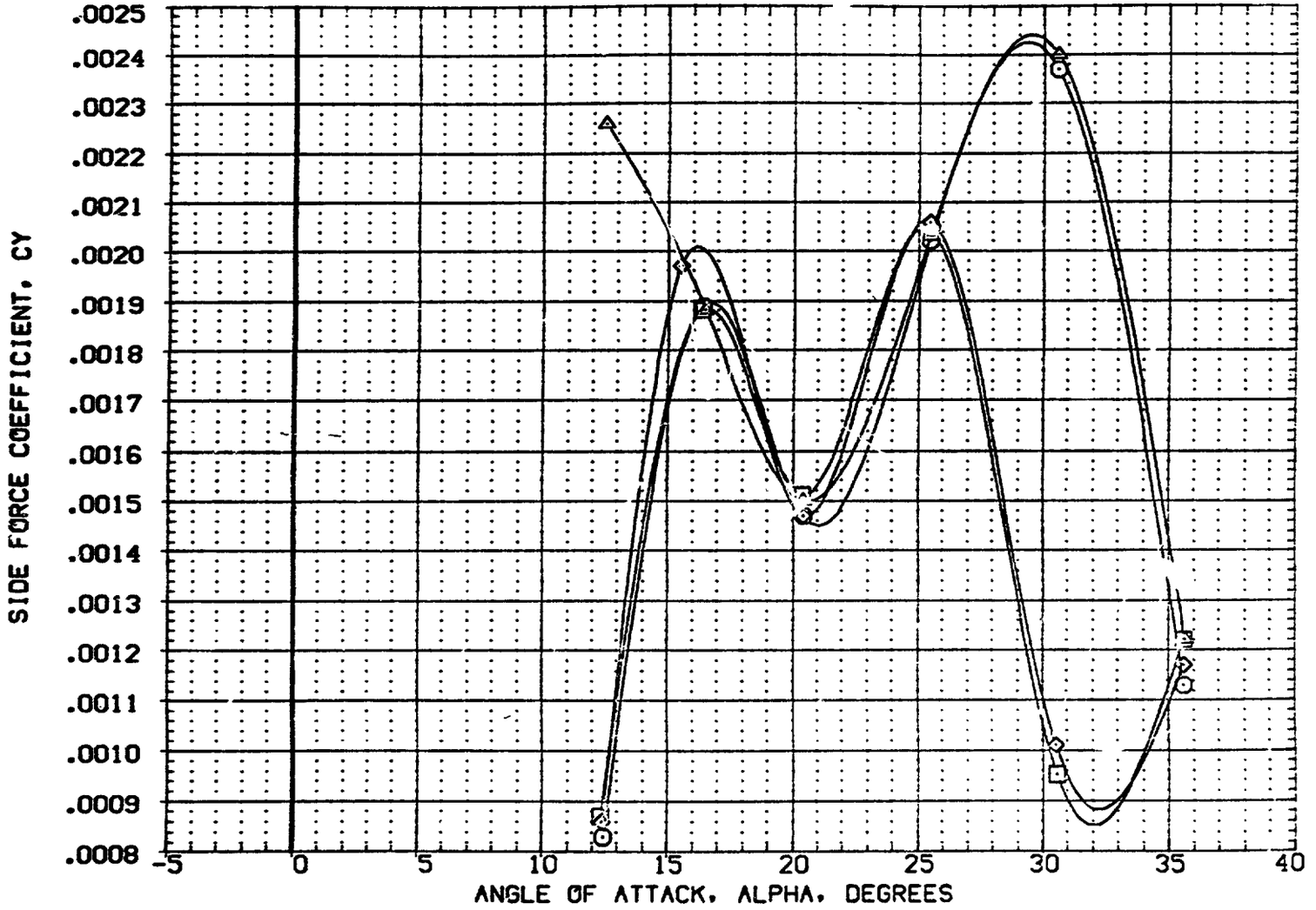


EFFECT OF YAW JET PRESSURE WITH WING OFF

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM004) ○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	.000	1.000
(CPM001) □	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	37.000	1.000
(CPM002) ◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	328.000	1.000
(CPM003) △	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

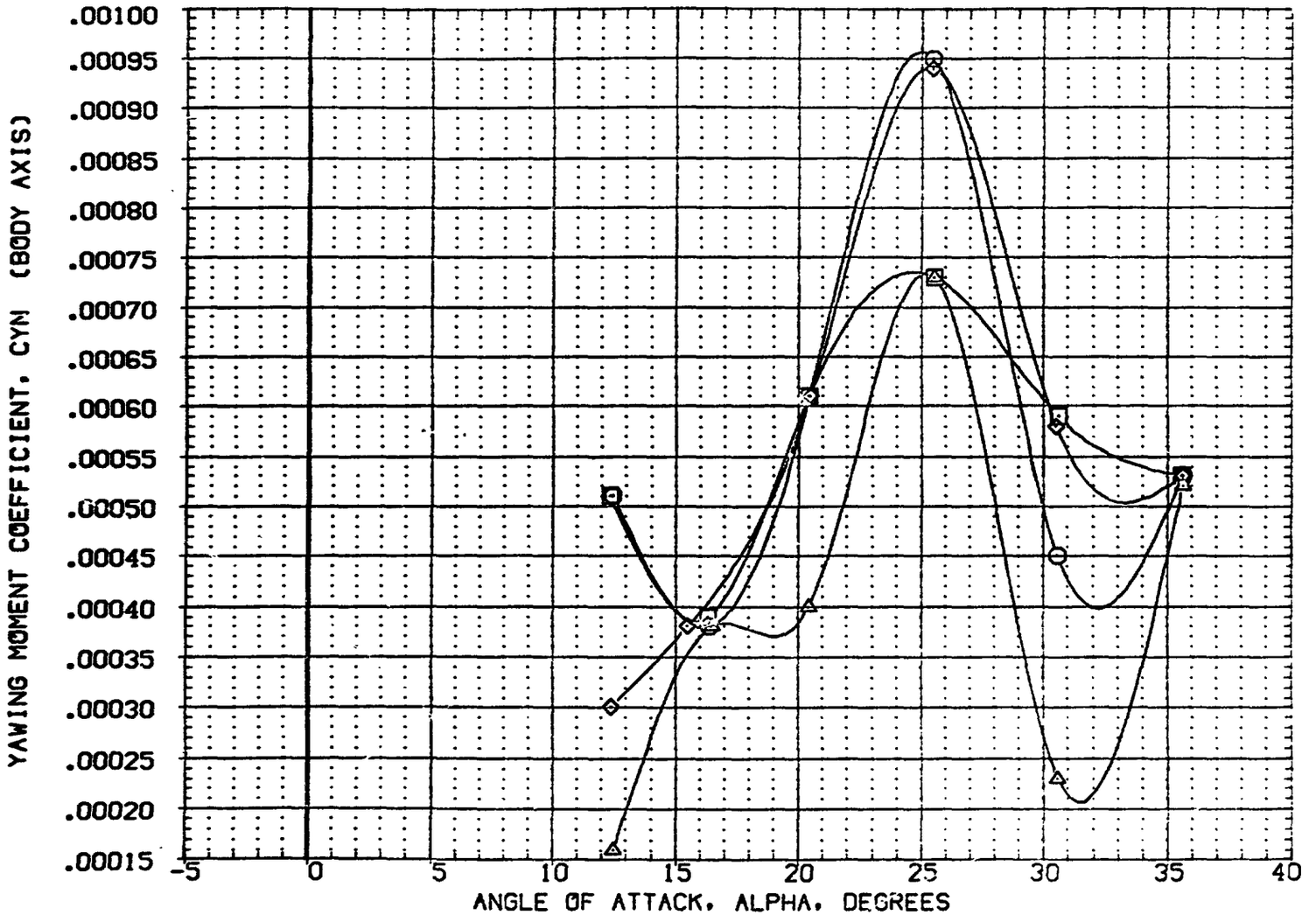


EFFECT OF YAW JET PRESSURE WITH WING OFF

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM004)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	.000	1.000
(CPM001)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN1	.000	37.000	1.000
(CPM002)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN1	.000	328.000	1.000
(CPM003)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN1	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



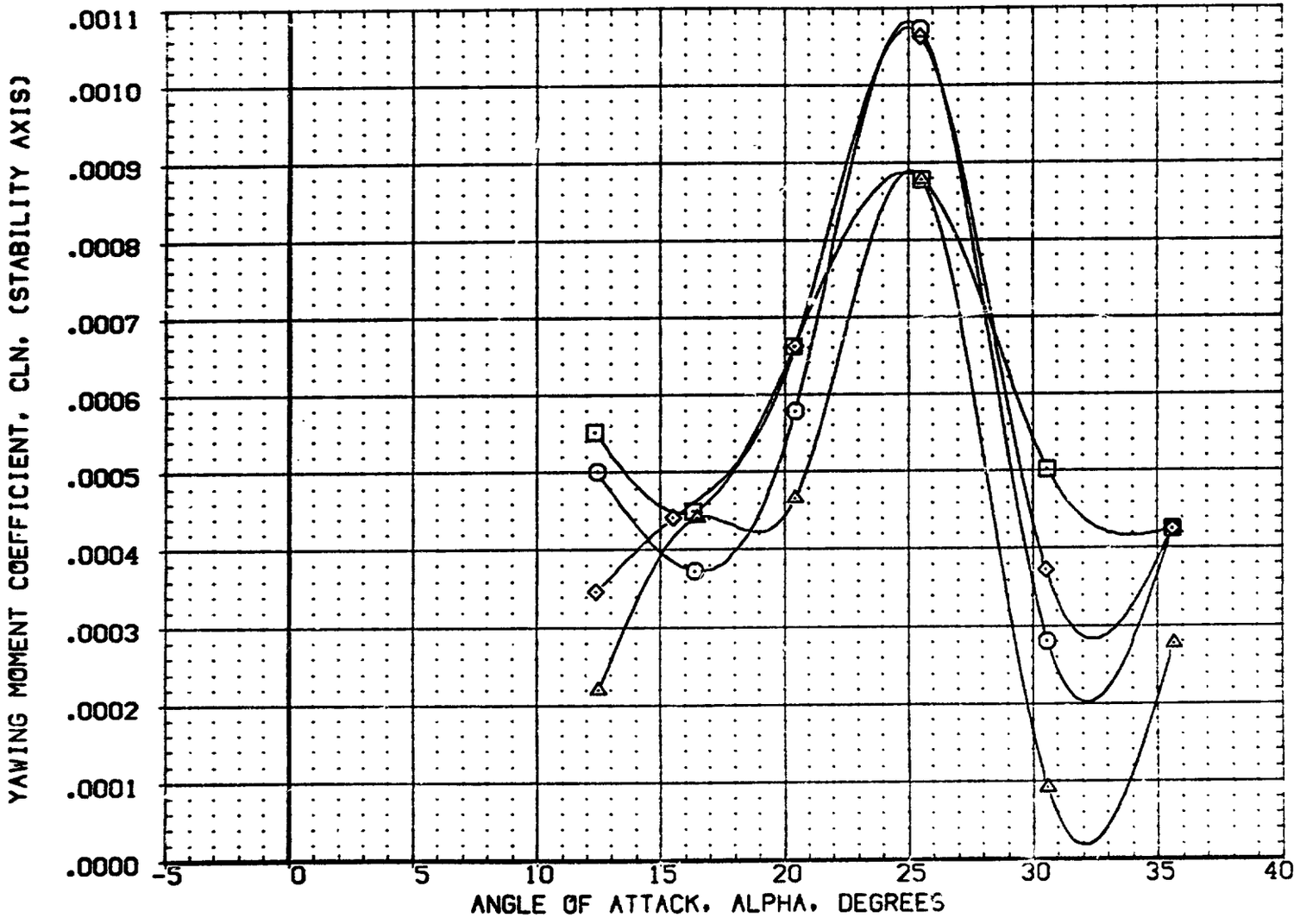
EFFECT OF YAW JET PRESSURE WITH WING OFF

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PC-JET	RN/L
(CPM004)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	.000	1.000
(CPM001)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	37.000	1.000
(CPM002)	⊠	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	328.000	1.000
(CPM003)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



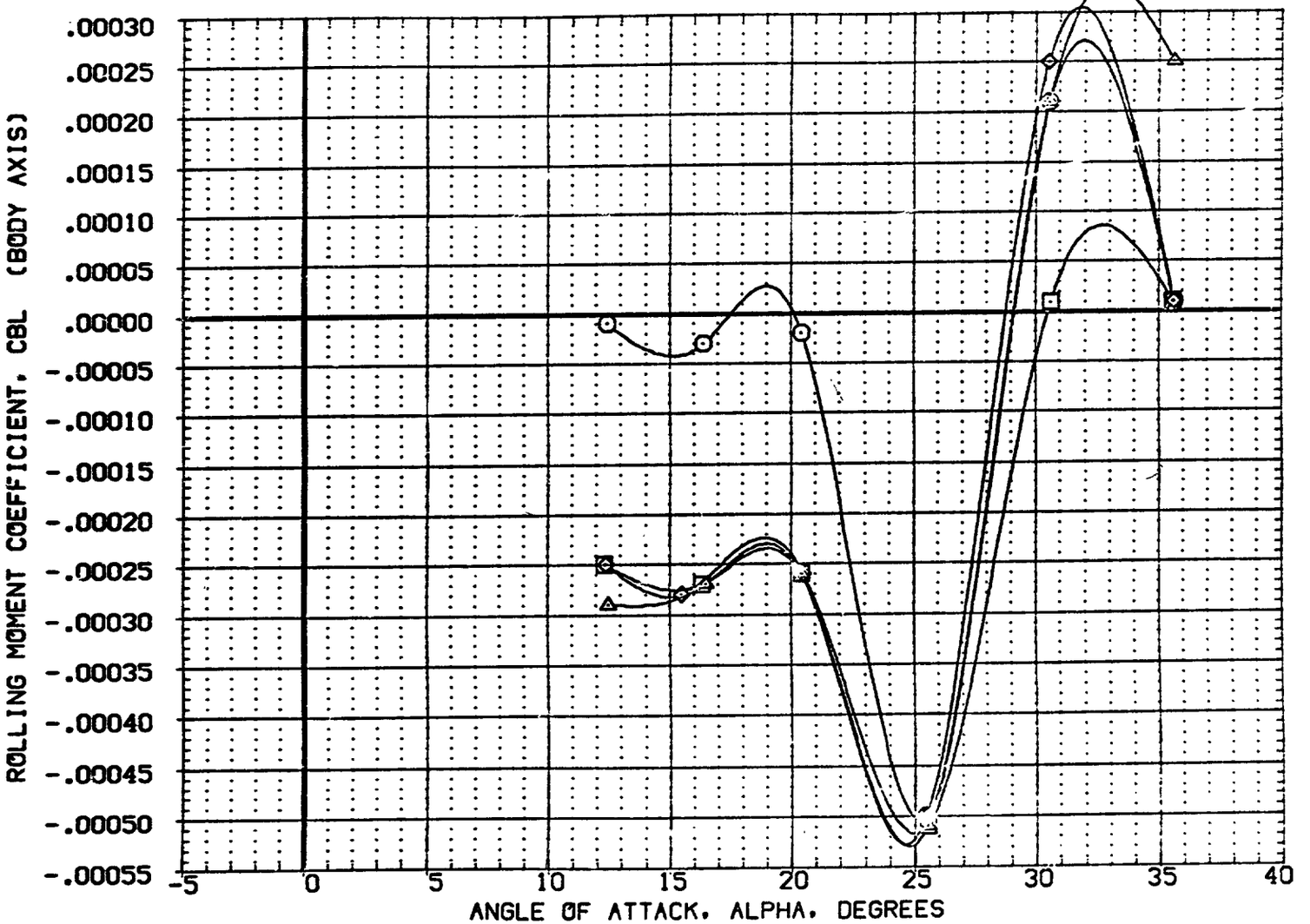
EFFECT OF YAW JET PRESSURE WITH WING OFF

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM004)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	.000	1.000
(CPM001)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTNI	.000	37.000	1.000
(CPM002)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTNI	.000	328.000	1.000
(CPM003)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTNI	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



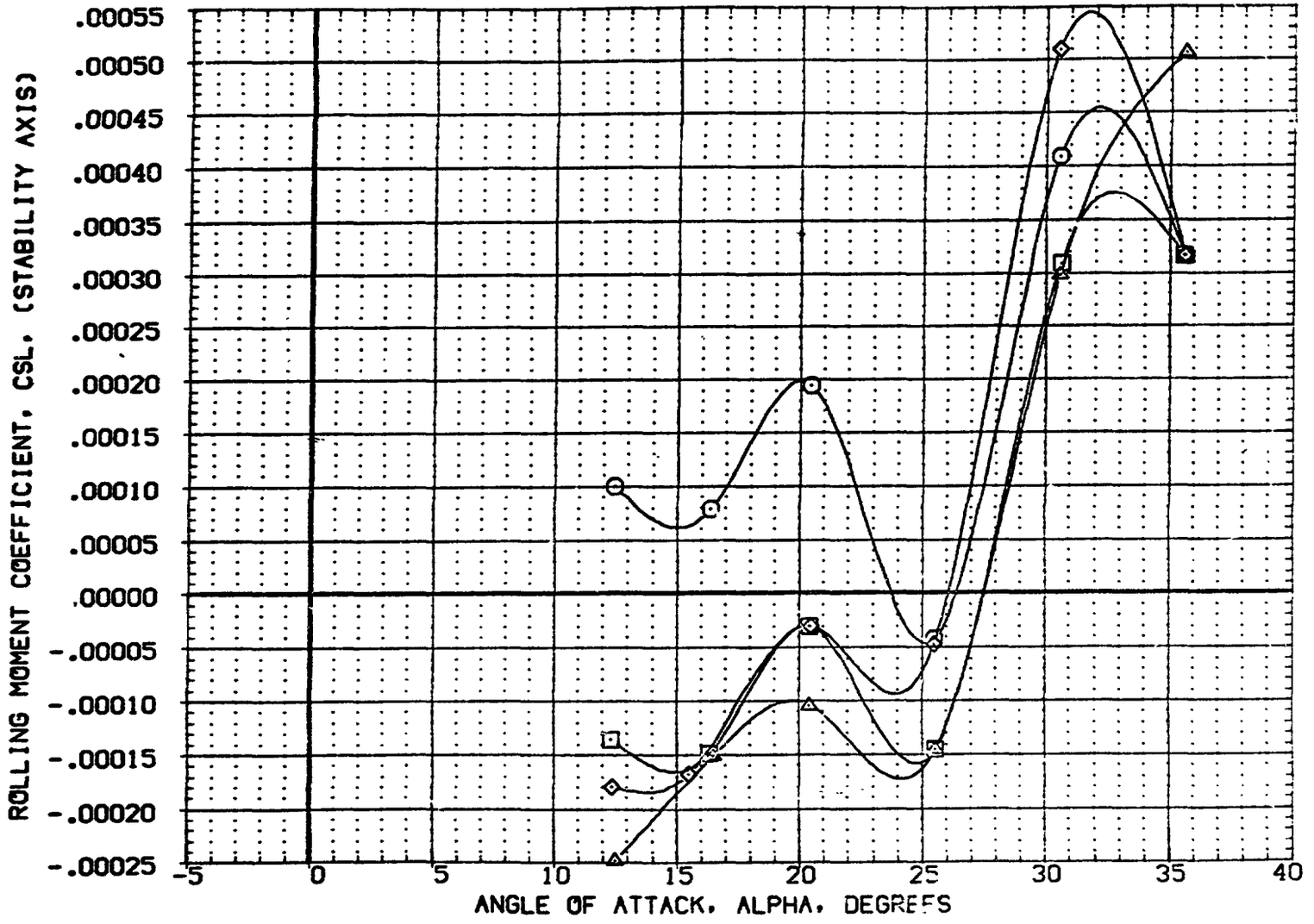
EFFECT OF YAW JET PRESSURE WITH WING OFF

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM004) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	.000	1.000
(CPM001) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	37.000	1.000
(CPM002) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	328.000	1.000
(CPM003) △	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



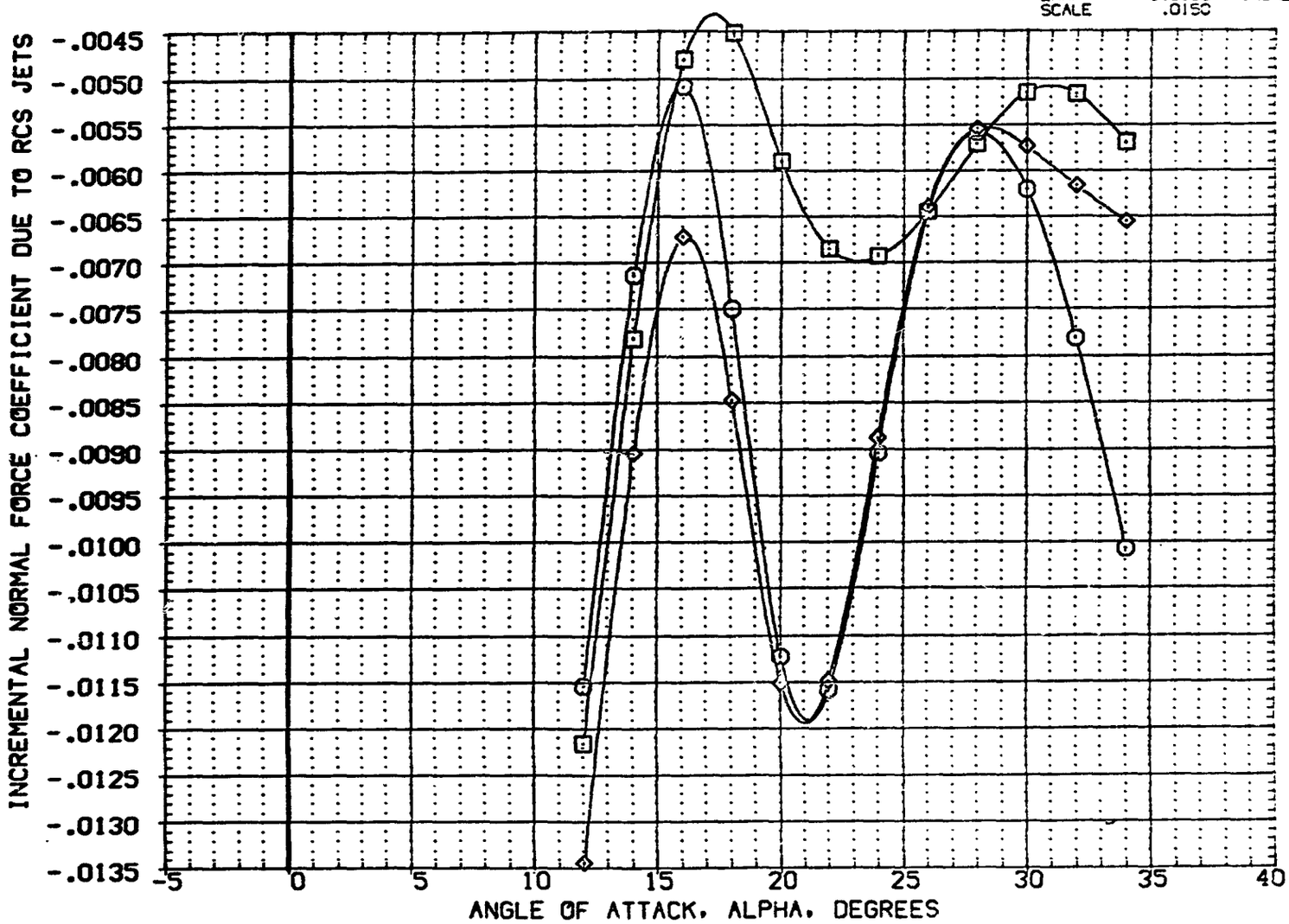
EFFECT OF YAW JET PRESSURE WITH WING OFF

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APMD01)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	37.000	1.000
(APMD02)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	328.000	1.000
(APMD03)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

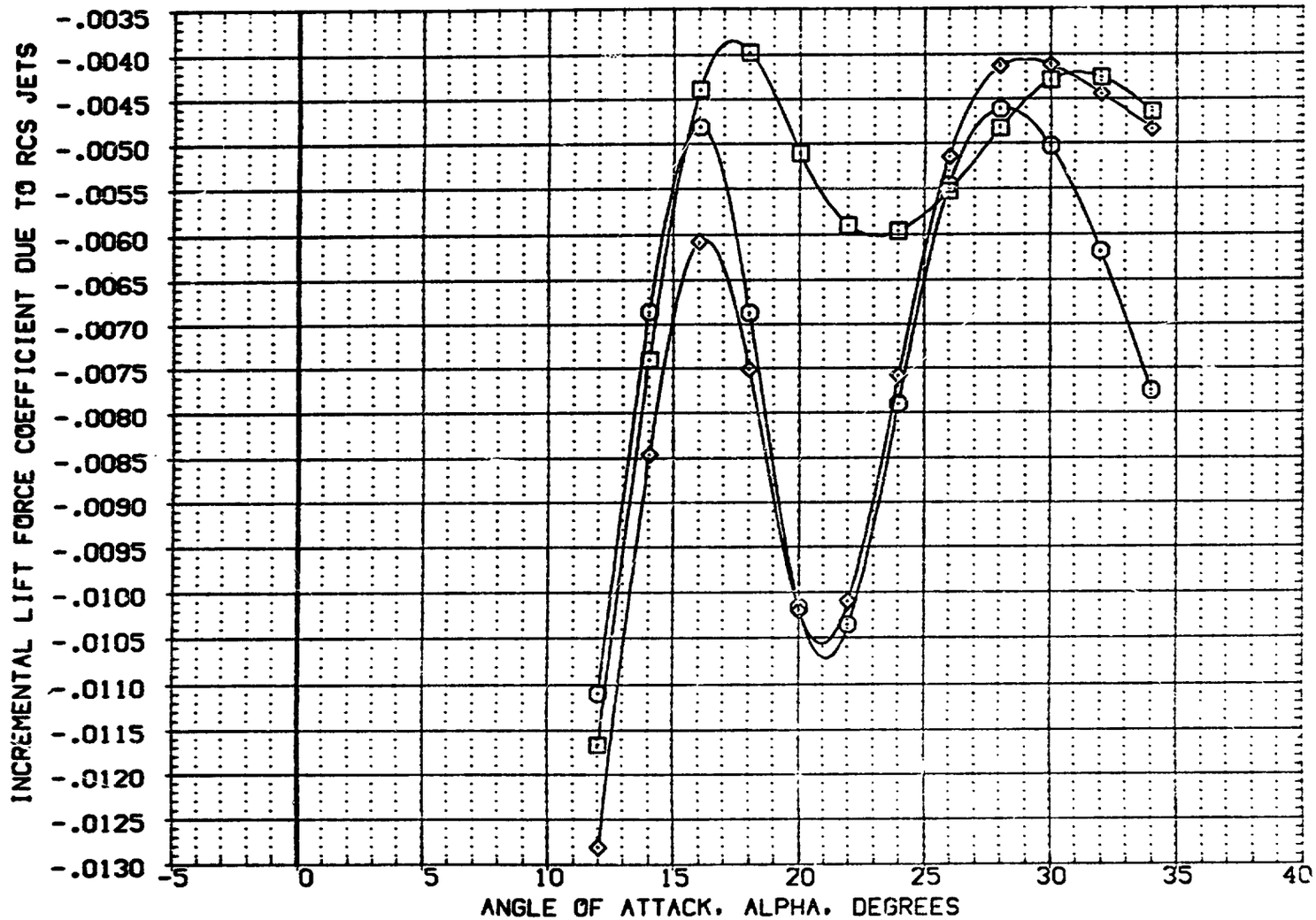


YAW JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM001) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	37.000	1.000
(APM002) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	328.000	1.000
(APM003) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



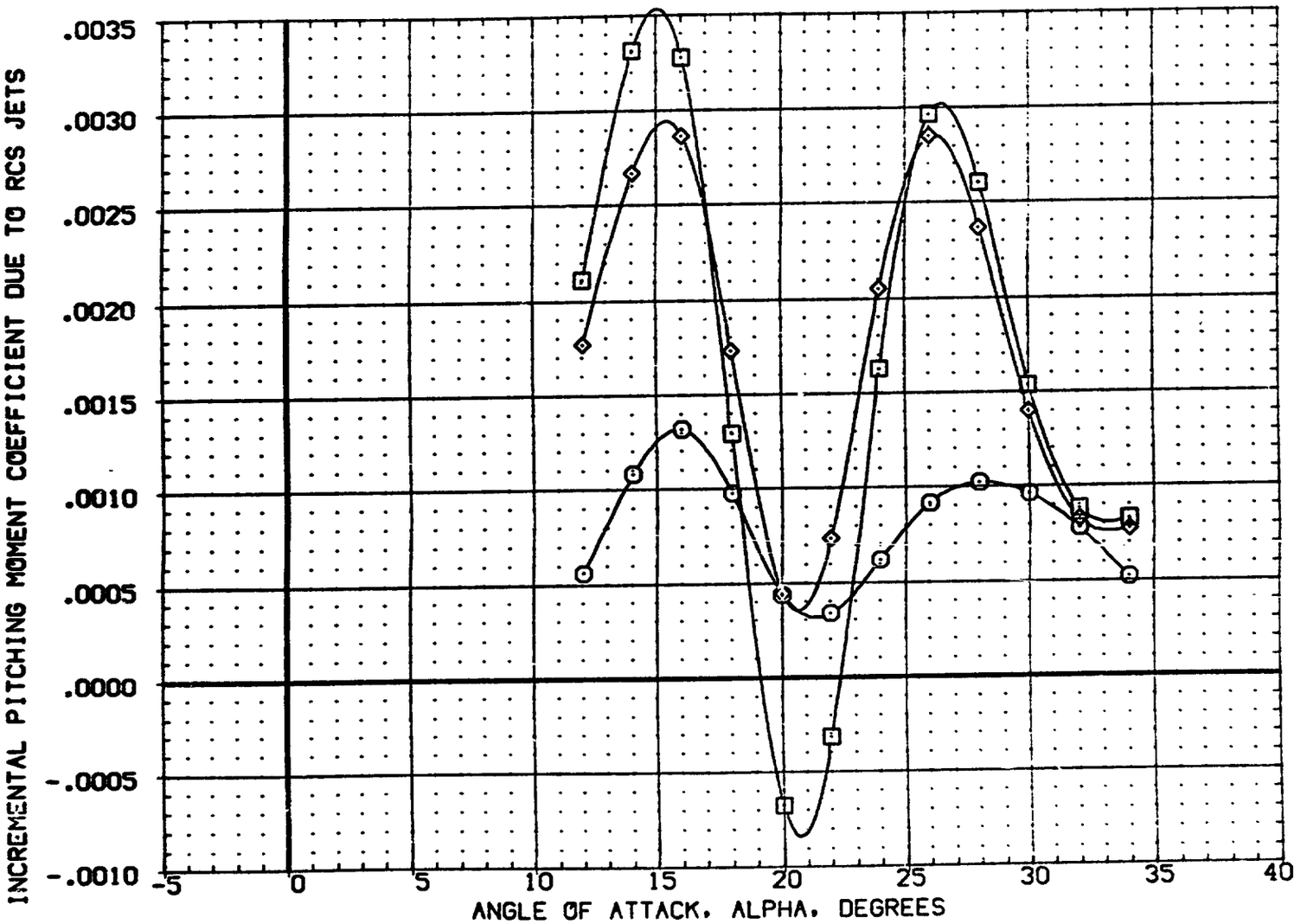
YAW JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM001) ○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	37.000	1.000
(APM002) □	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	328.000	1.000
(APM003) ◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



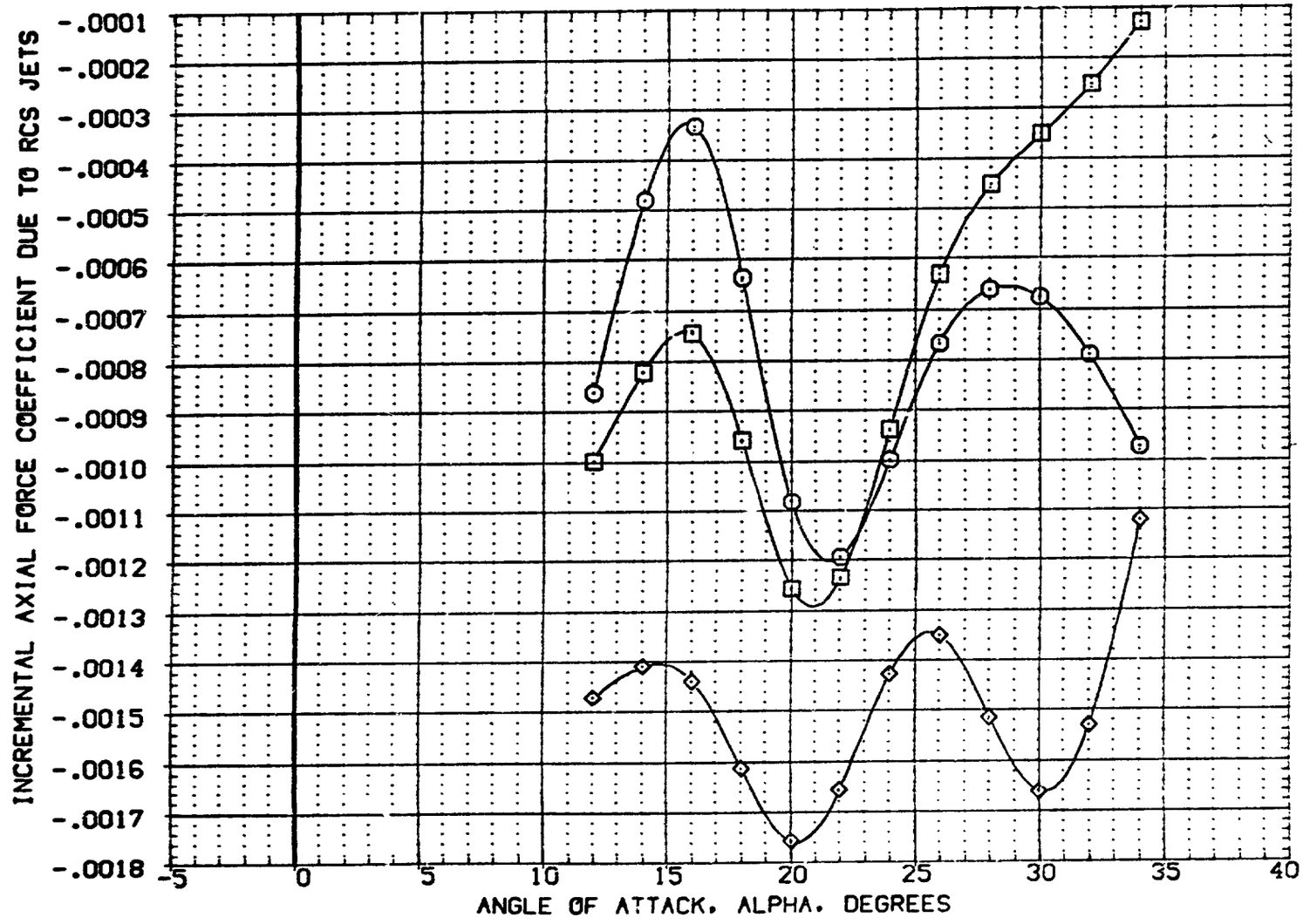
YAW JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM001) ○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTNI	.000	27.000	1.000
(APM002) □	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTNI	.000	328.000	1.000
(APM003) ◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTNI	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

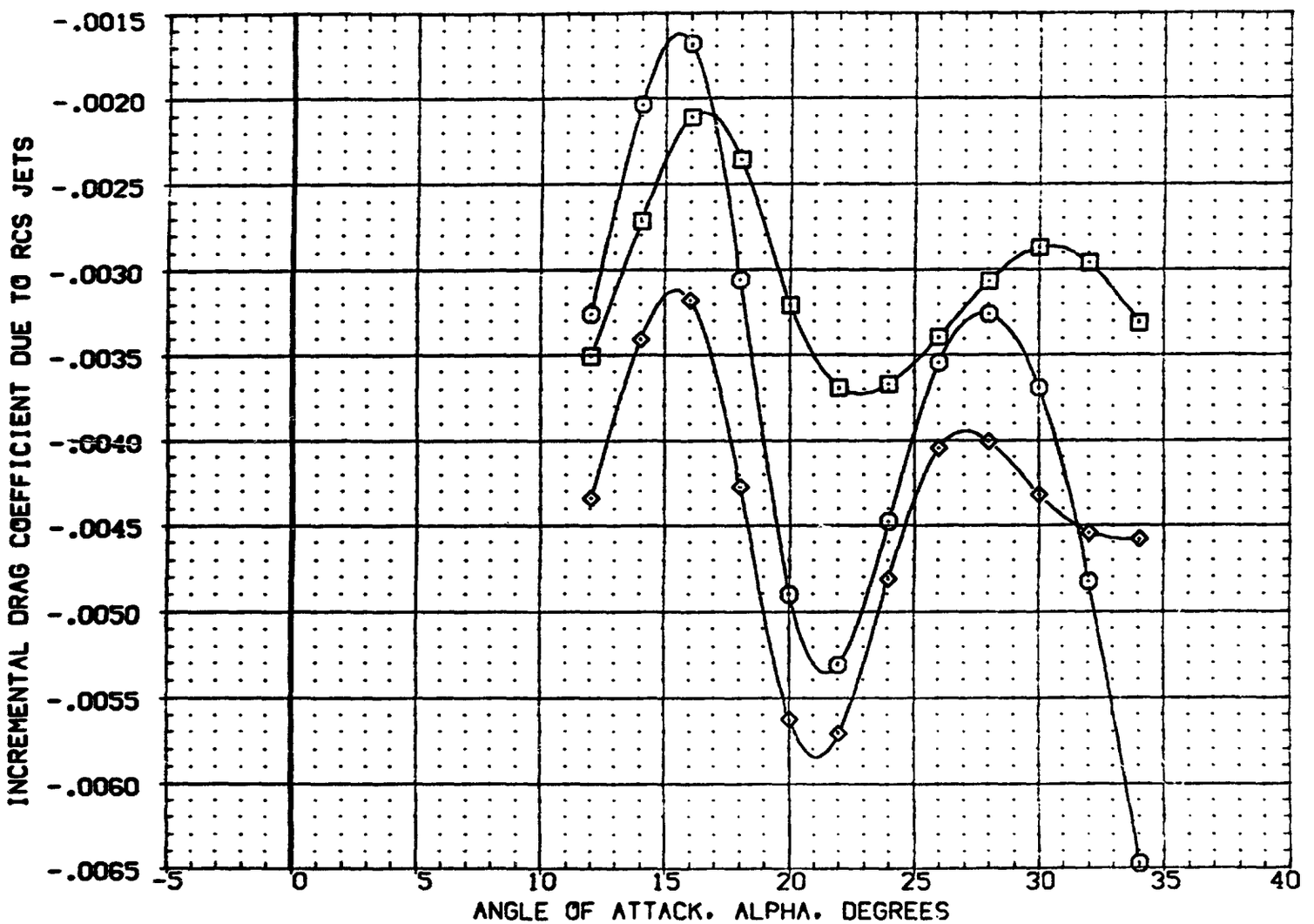


YAW JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM001)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	37.000	1.000
(APM002)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	328.000	1.000
(APM003)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1132	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

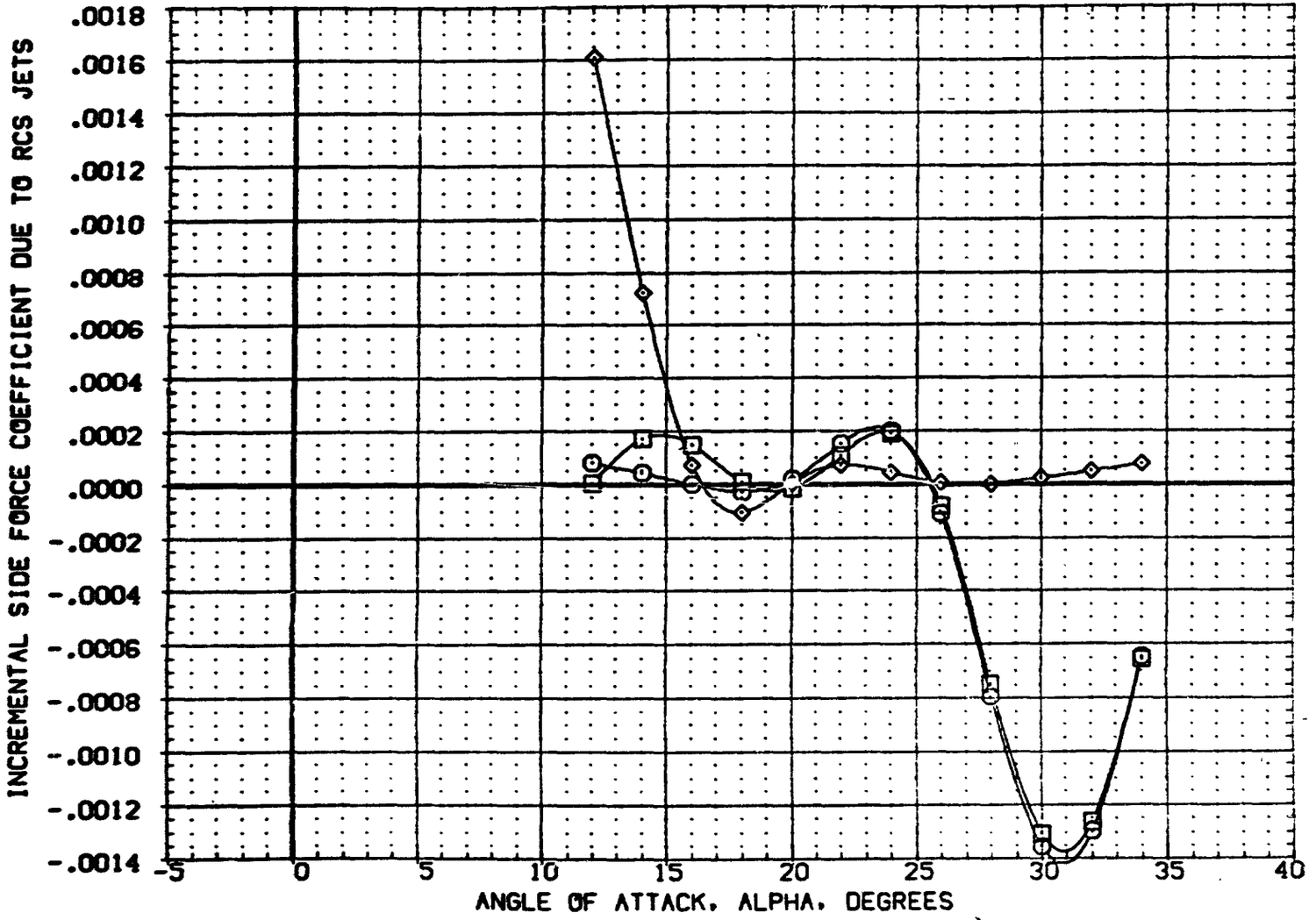


YAW JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APH001)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	37.000	1.000
(APH002)	⊡	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	328.000	1.000
(APH003)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN1	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



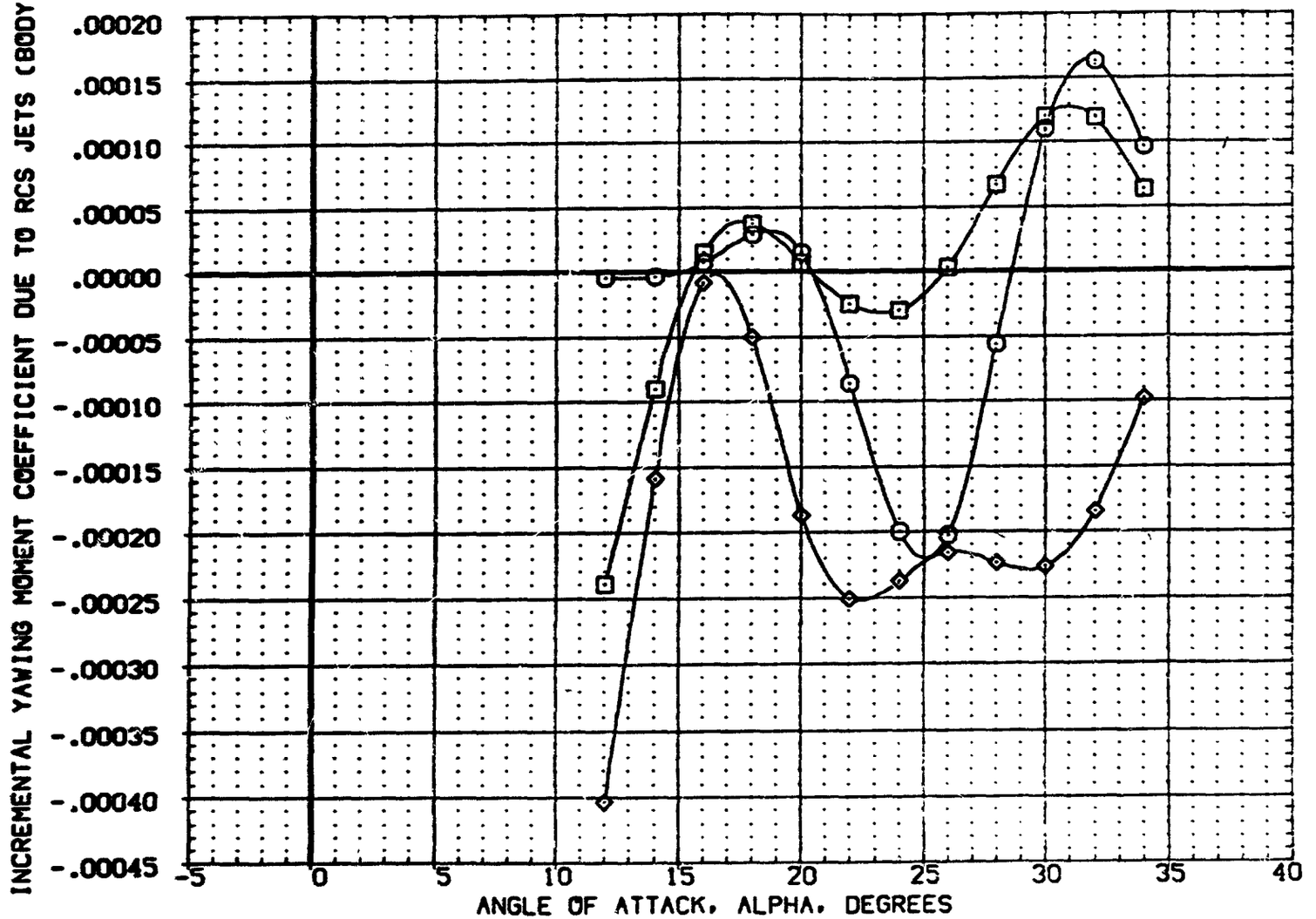
YAW JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM001)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTNI	.000	37.000	1.000
(APM002)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTNI	.000	328.000	1.000
(APM003)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTNI	.000	600.000	1.000

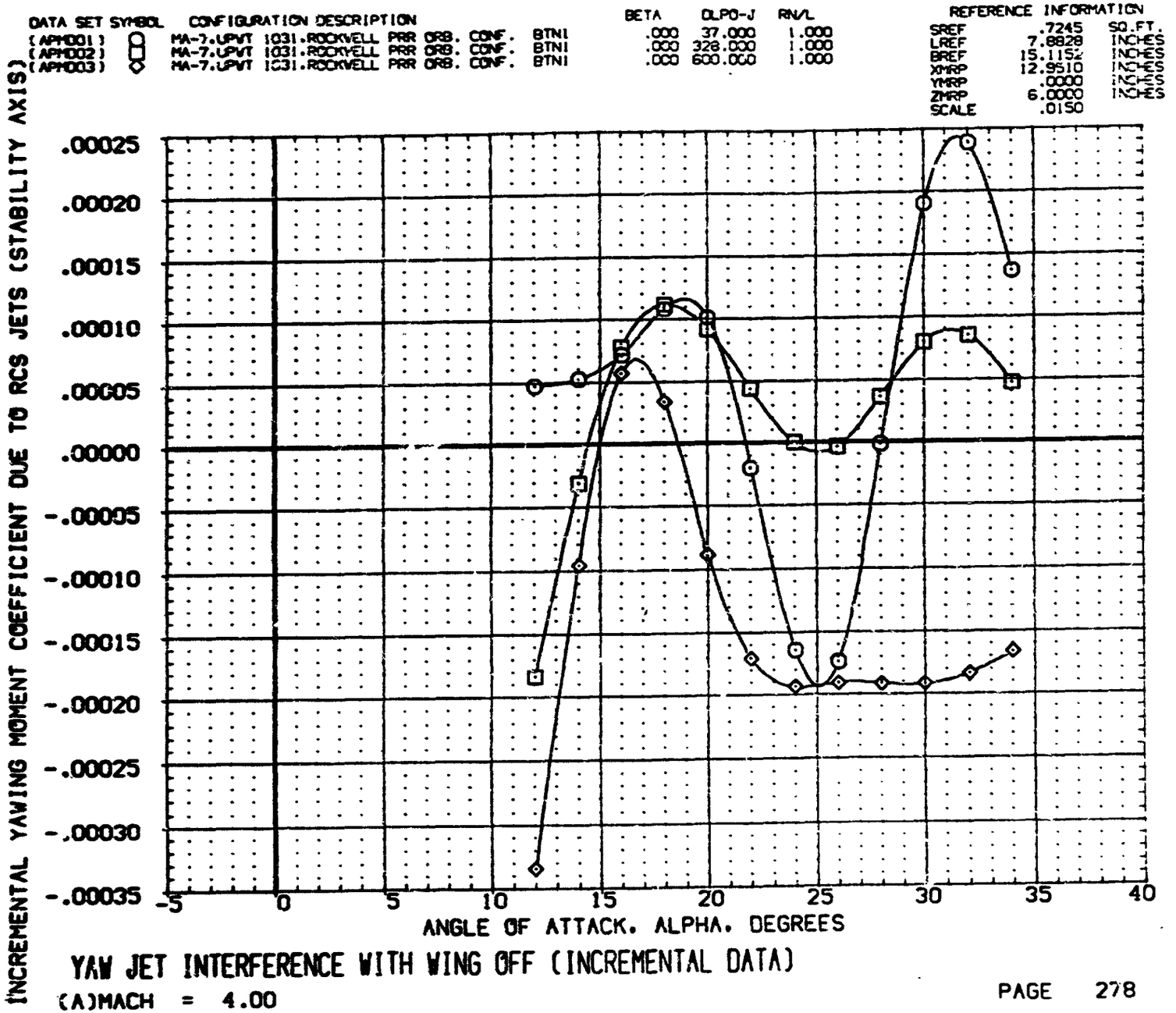
REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



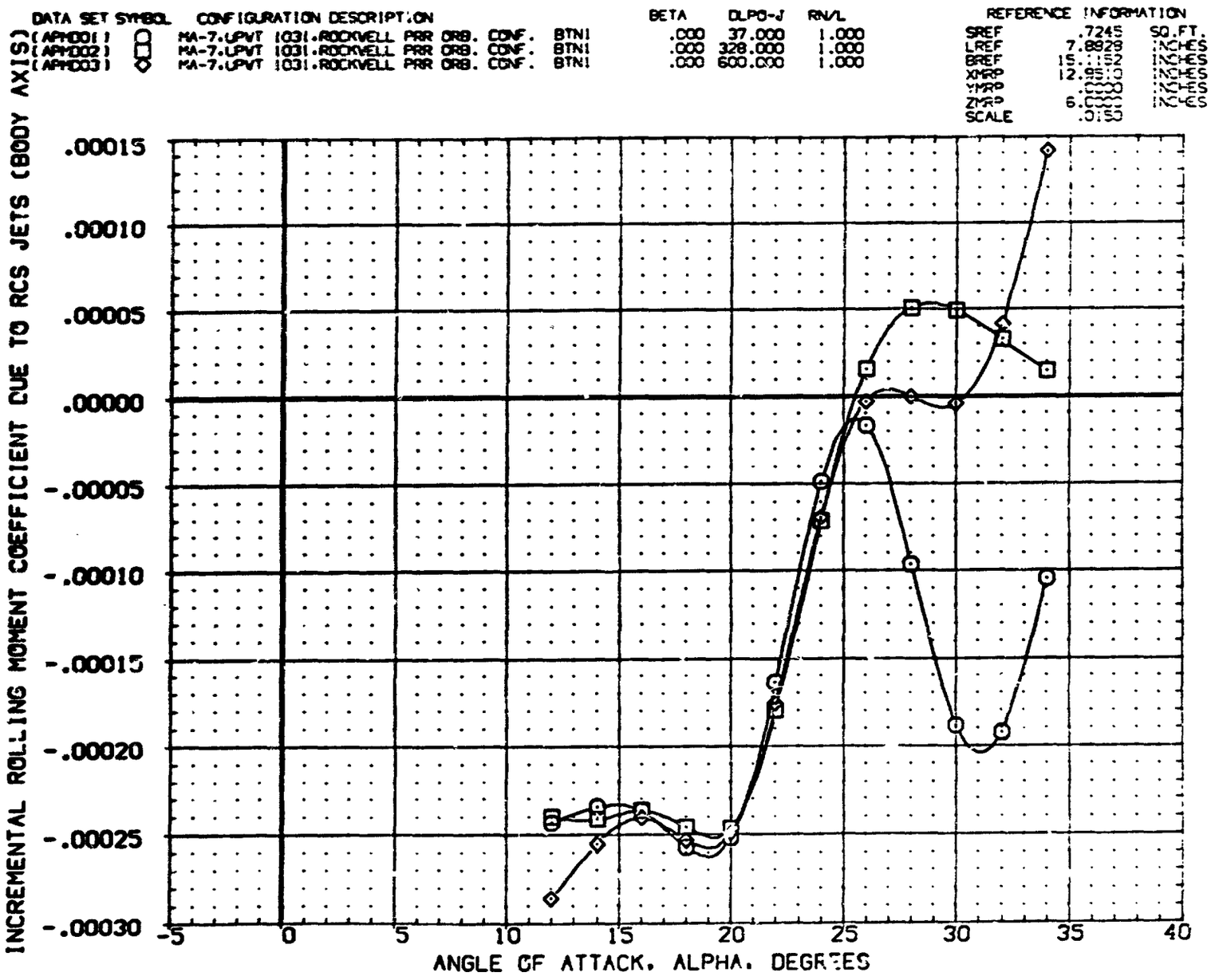
YAW JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00



YAW JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00



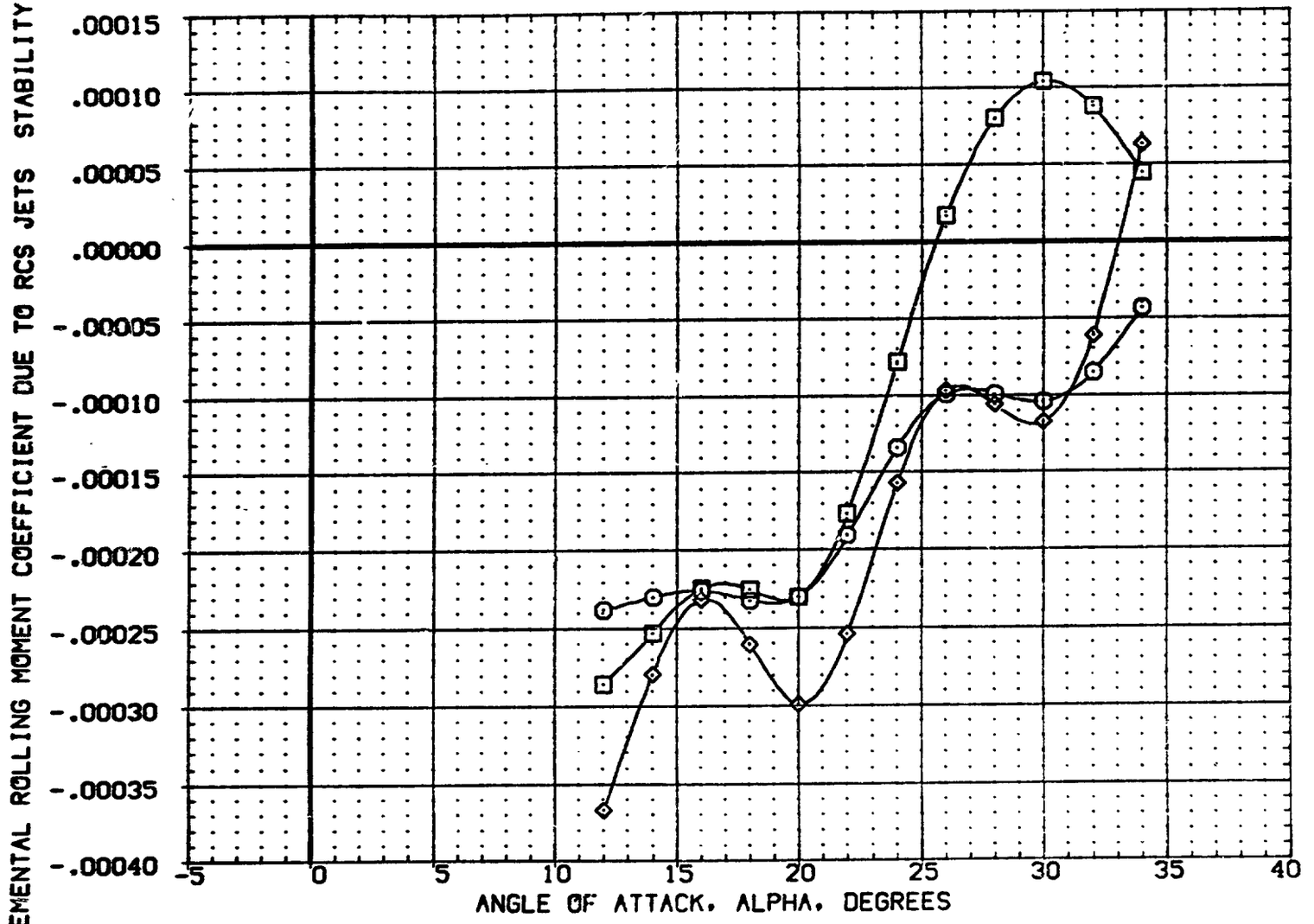
YAW JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM001)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTNI	.000	37.000	1.000
(APM002)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTNI	.000	328.000	1.000
(APM003)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTNI	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8928	INCHES
BREF	15.1152	INCHES
XMRP	12.8510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



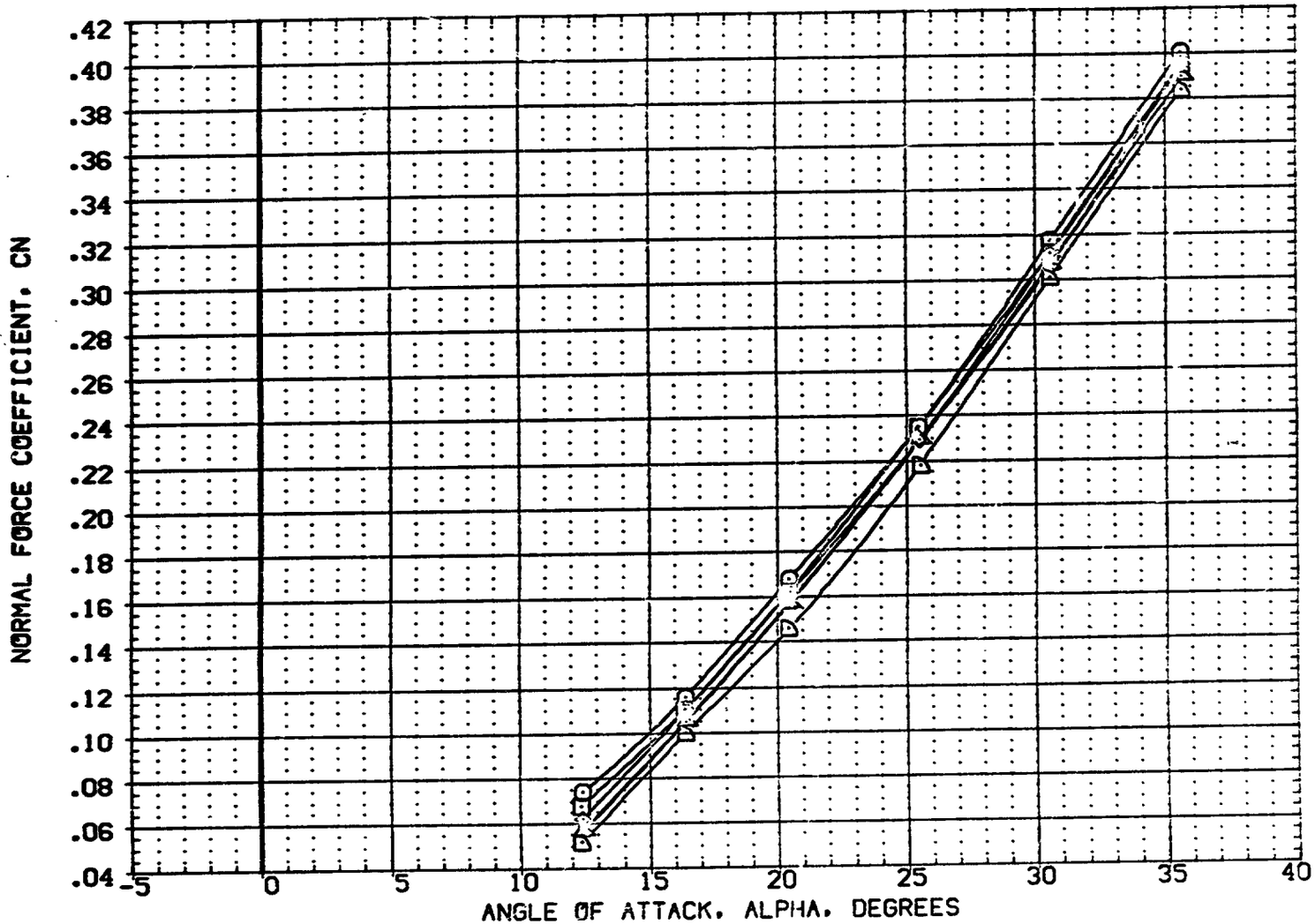
YAW JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM004)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	.000	1.000
(CPM005)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(CPM006)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(CPM007)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(CPM008)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(CPM009)	D	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	500.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

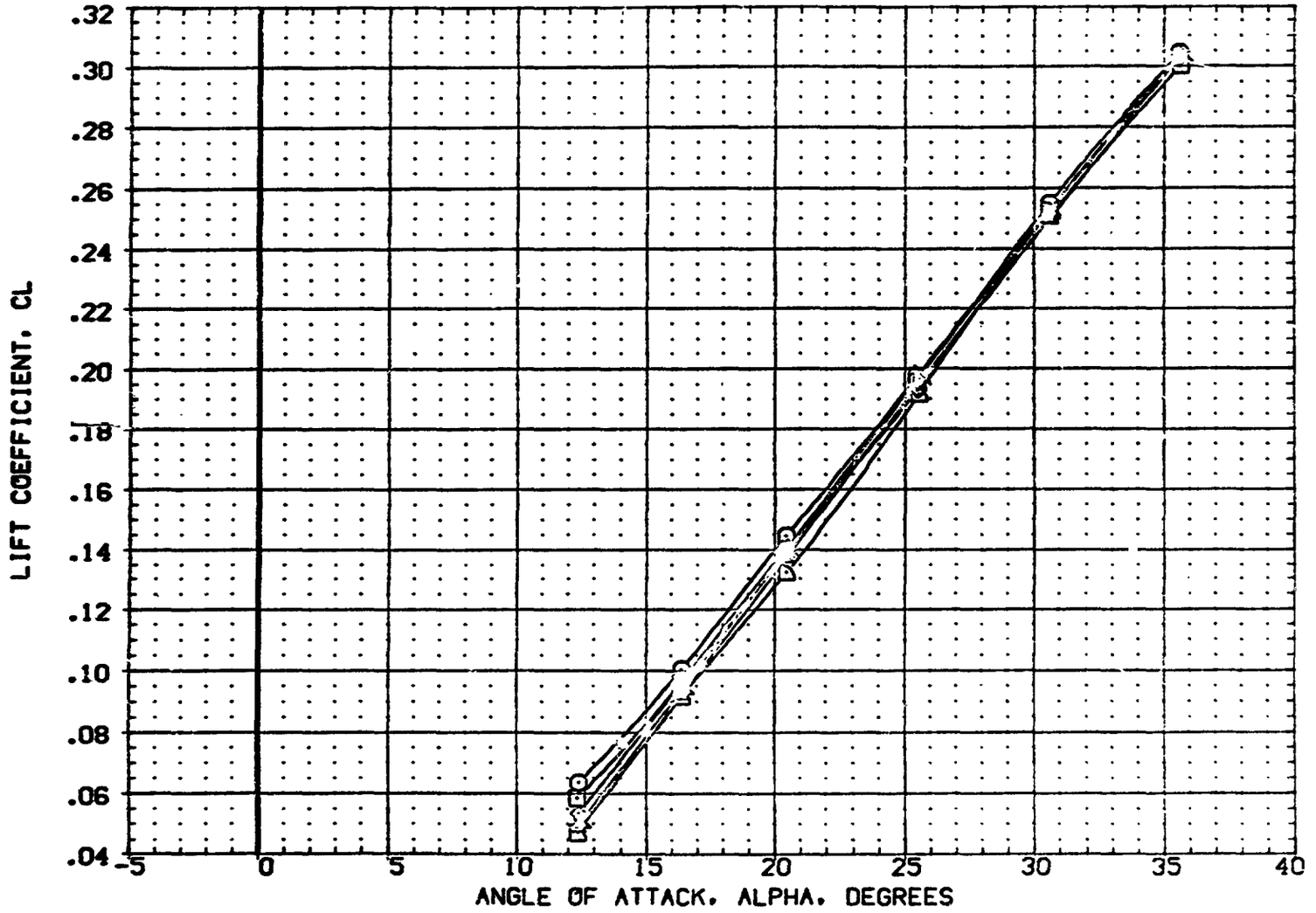


EFFECT OF DOWNWARD FIRING ROLL JET WITH WING OFF

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM004)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	.000	1.000
(CPM005)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(CPM006)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(CPM007)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(CPM008)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(CPM009)	D	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

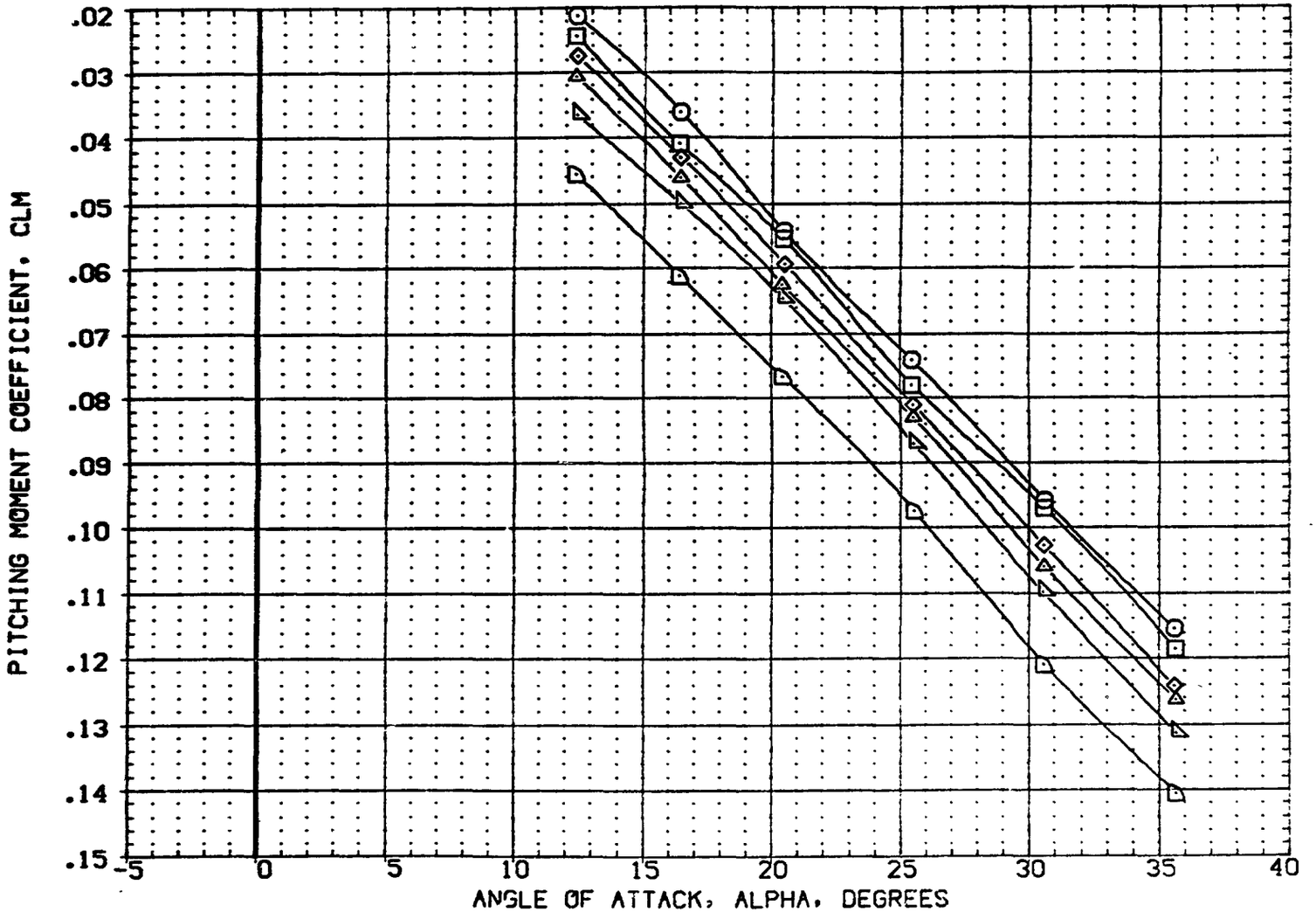


EFFECT OF DOWNWARD FIRING ROLL JET WITH WING OFF

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM004)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	.000	1.000
(CPM005)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(CPM006)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(CPM007)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(CPM008)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(CPM009)	D	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



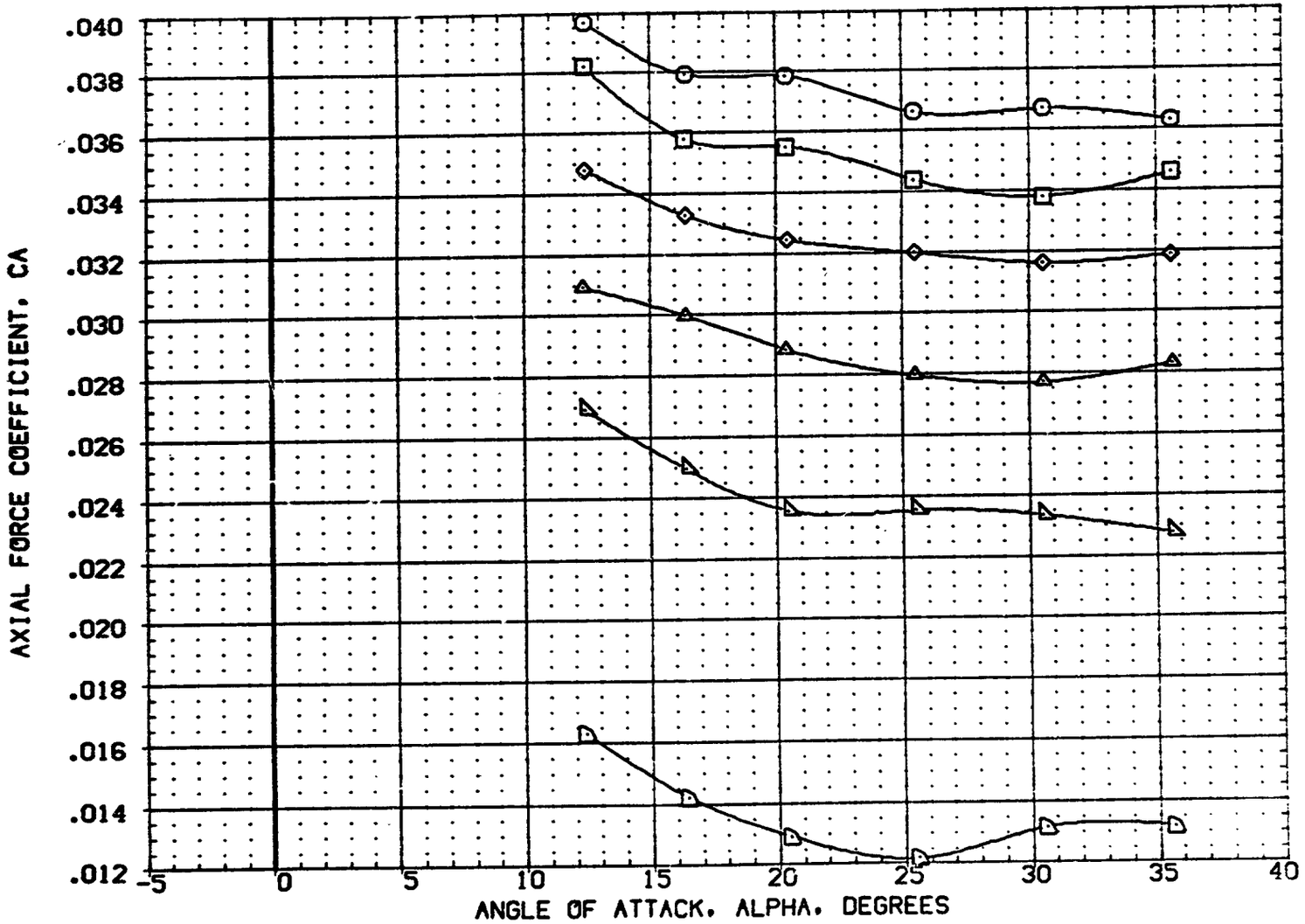
EFFECT OF DOWNWARD FIRING ROLL JET WITH WING OFF

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM004)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	.000	1.000
(CPM005)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(CPM006)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(CPM007)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(CPM008)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(CPM009)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

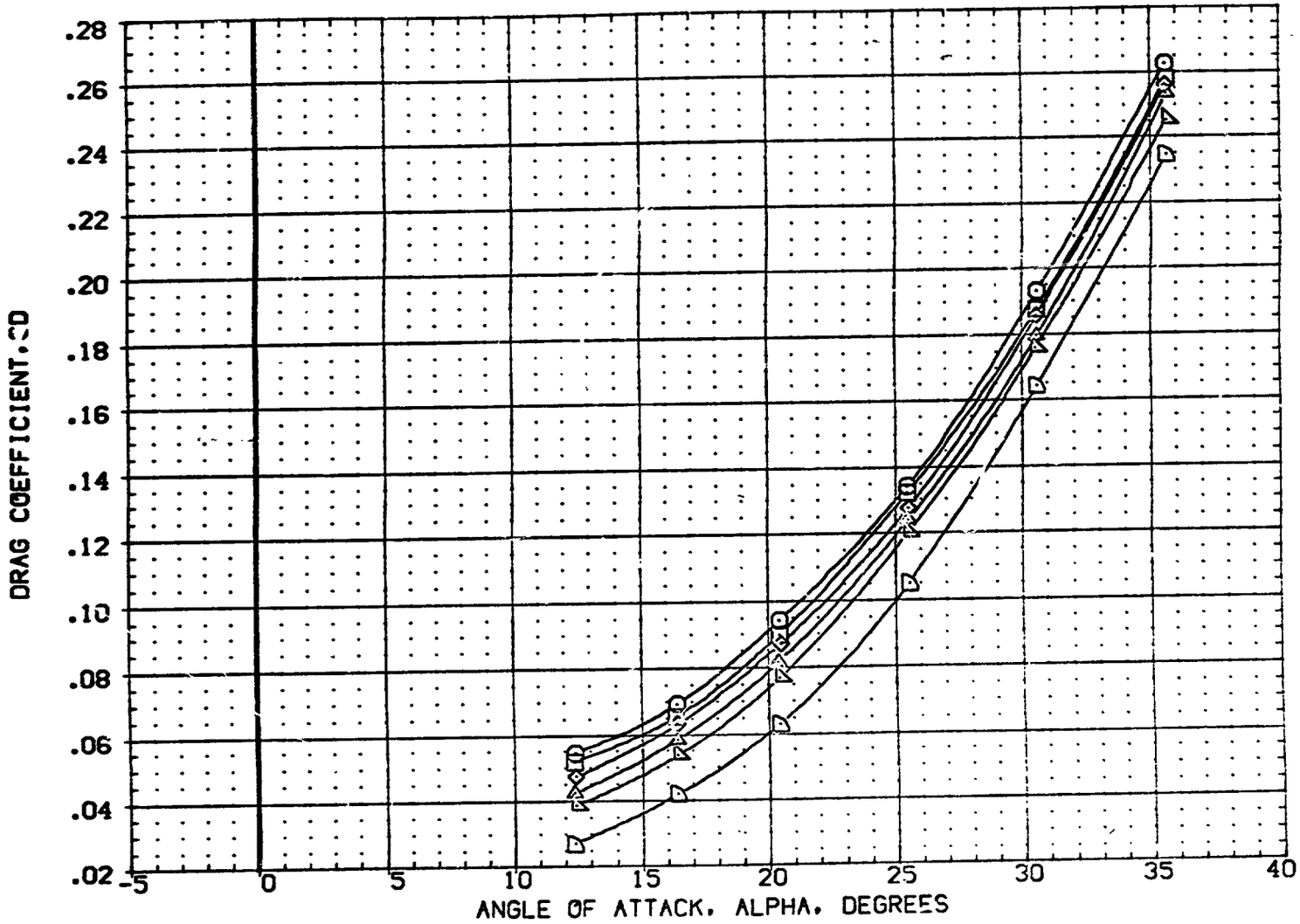


EFFECT OF DOWNWARD FIRING ROLL JET WITH WING OFF

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PO-JET	RN/L
(CPM004)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN4C	.000	.000	1.000
(CPM005)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	37.000	1.000
(CPM006)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	100.000	1.000
(CPM007)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	199.000	1.000
(CPM008)	◁	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	328.000	1.000
(CPM009)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

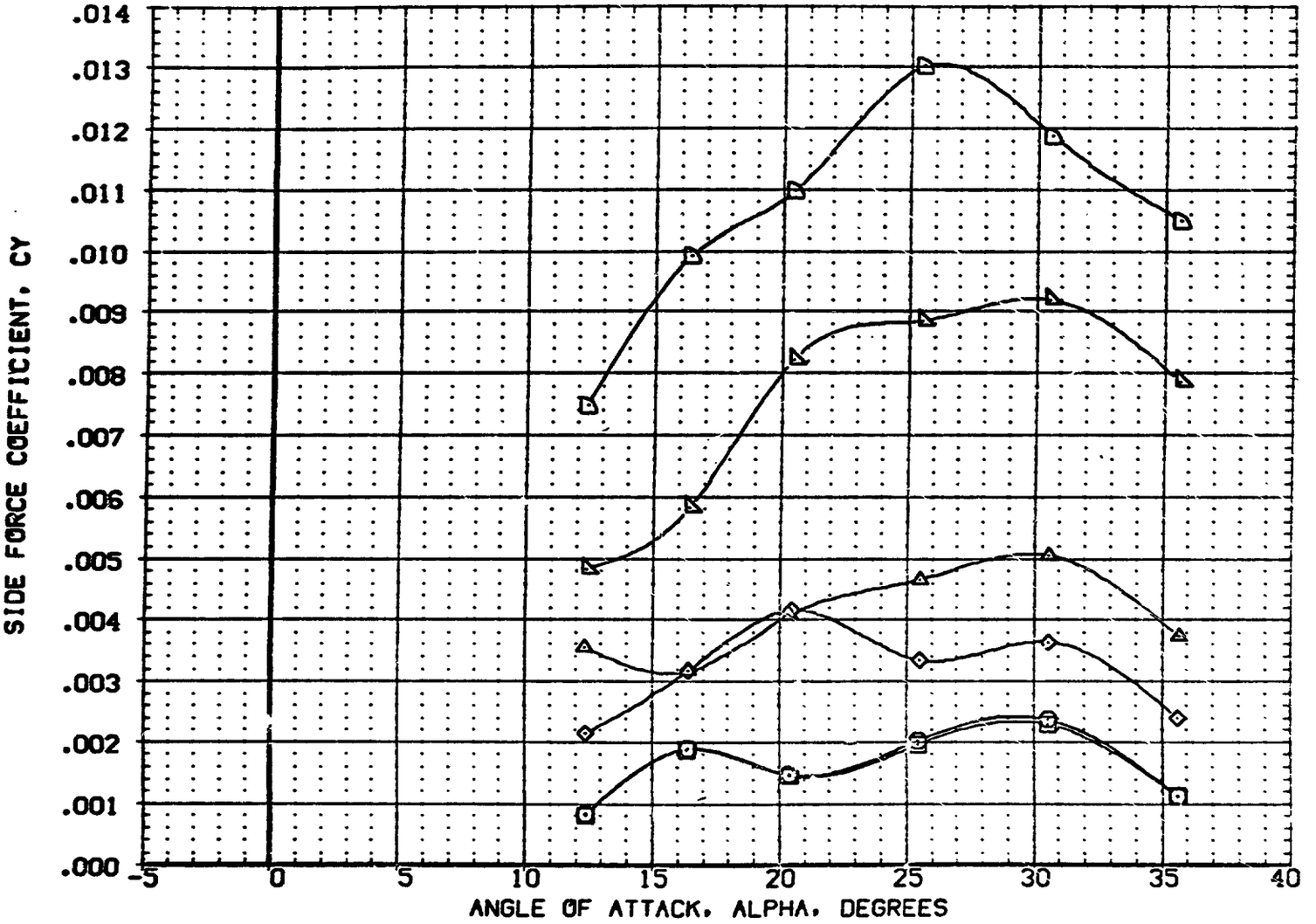


EFFECT OF DOWNWARD FIRING ROLL JET WITH WING OFF

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PC-JET	RN/L
(CPM004)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	.000	1.000
(CPM005)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(CPM006)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(CPM007)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(CPM008)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(CPM009)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

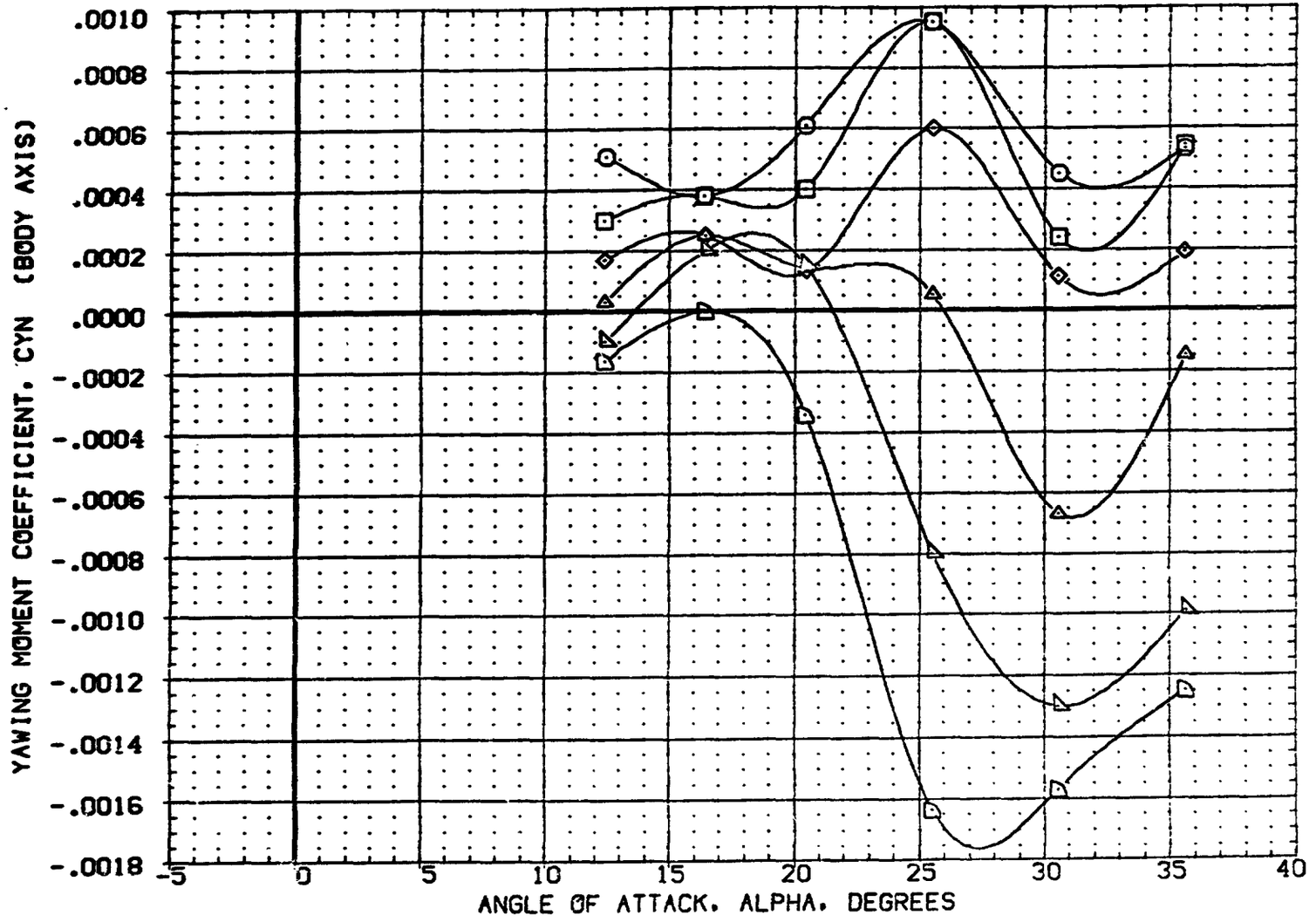


EFFECT OF DOWNWARD FIRING ROLL JET WITH WING OFF

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM004)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	.000	1.000
(CPM005)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(CPM006)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(CPM007)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(CPM008)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(CPM009)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

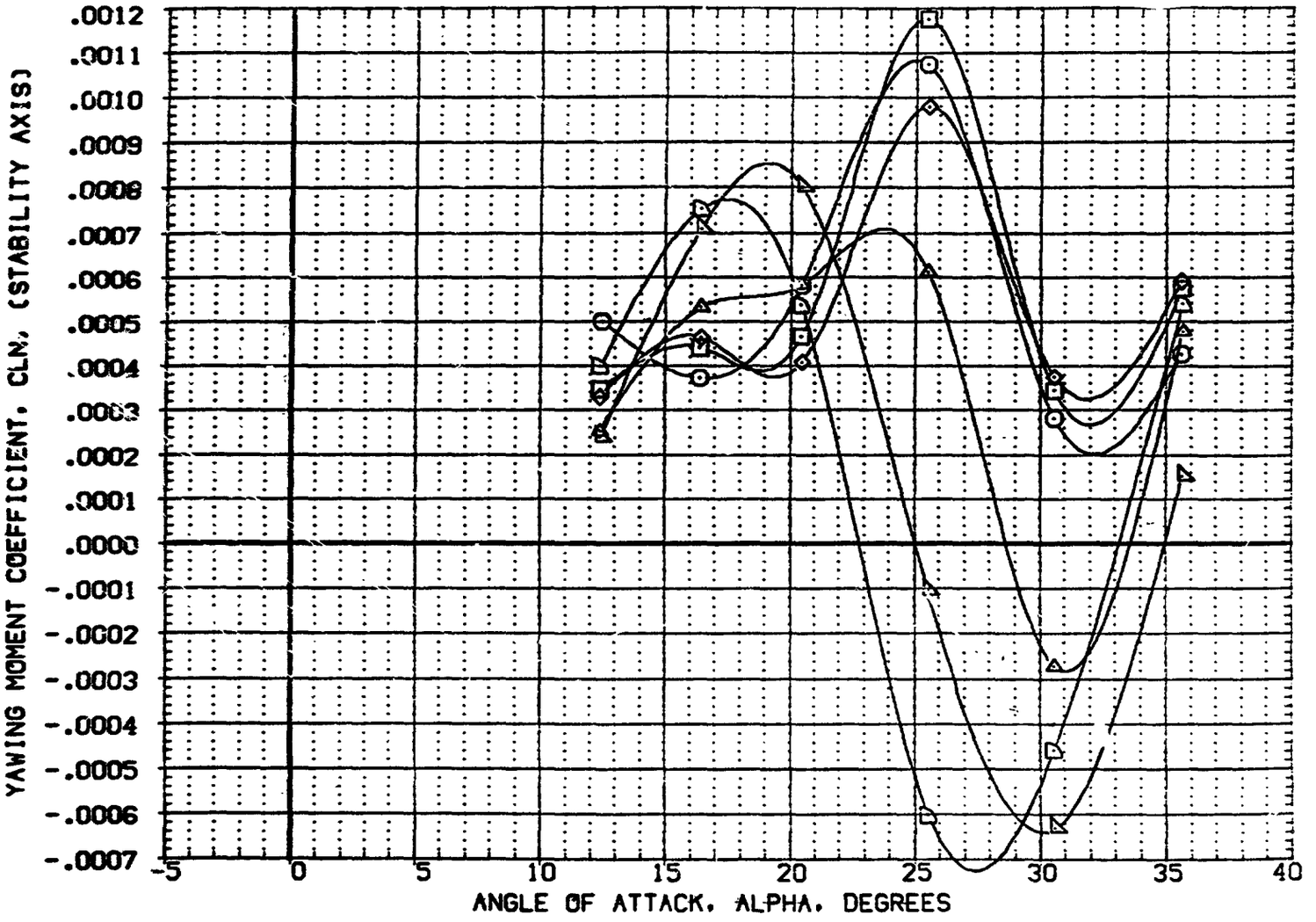


EFFECT OF DOWNWARD FIRING ROLL JET WITH WING OFF

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM004)	CLMAD	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	.000	1.000
(CPM005)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(CPM006)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(CPM007)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(CPM008)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(CPM009)		MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

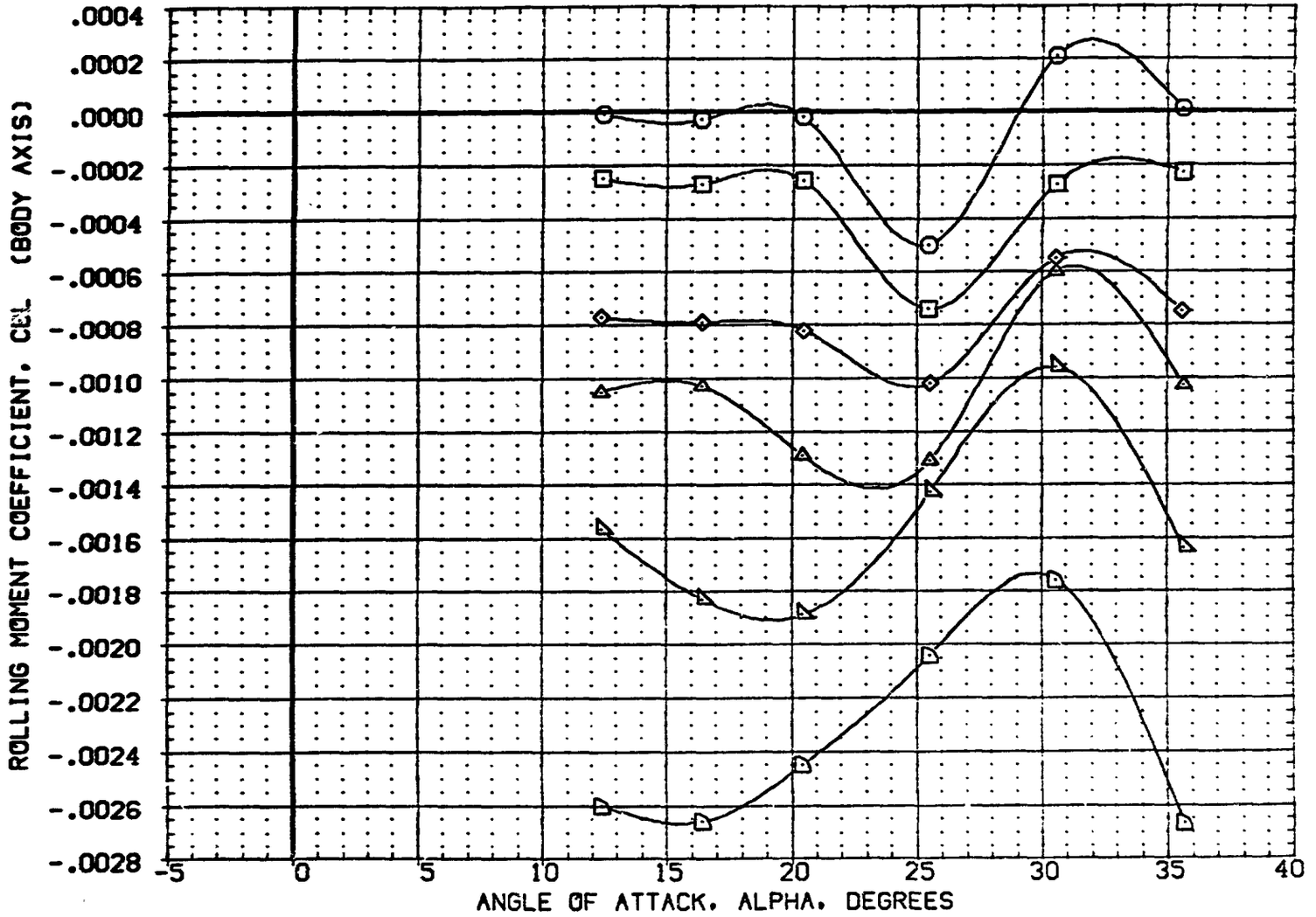


EFFECT OF DOWNWARD FIRING ROLL JET WITH WING OFF

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM004)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	.000	1.000
(CPM005)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(CPM006)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(CPM007)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(CPM008)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(CPM009)	⬠	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



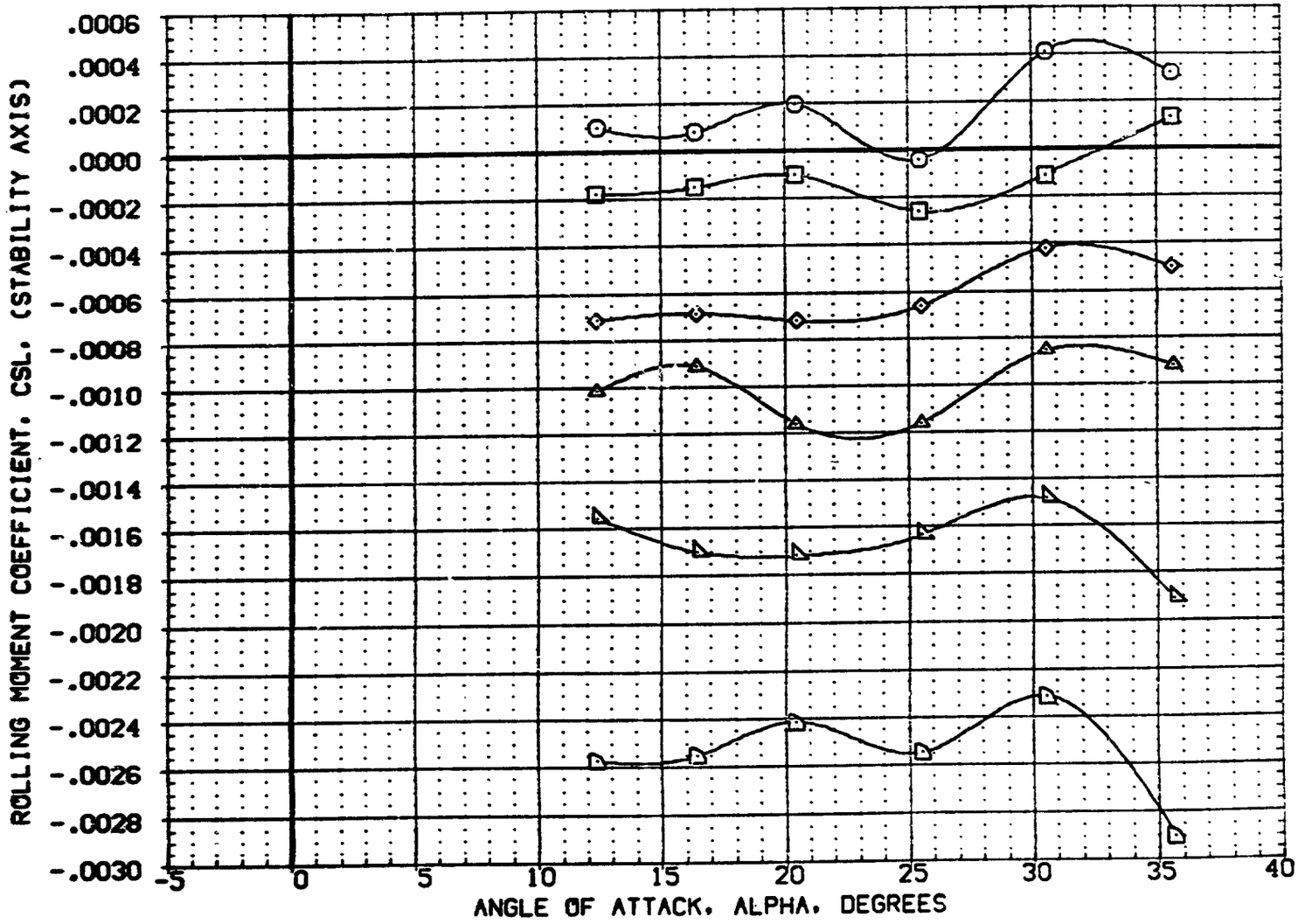
EFFECT OF DOWNWARD FIRING ROLL JET WITH WING OFF

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PO-JET	RN/L
(CPM004)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	.000	1.000
(CPM005)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(CPM006)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(CPM007)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(CPM008)	▷	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(CPM009)	▷	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

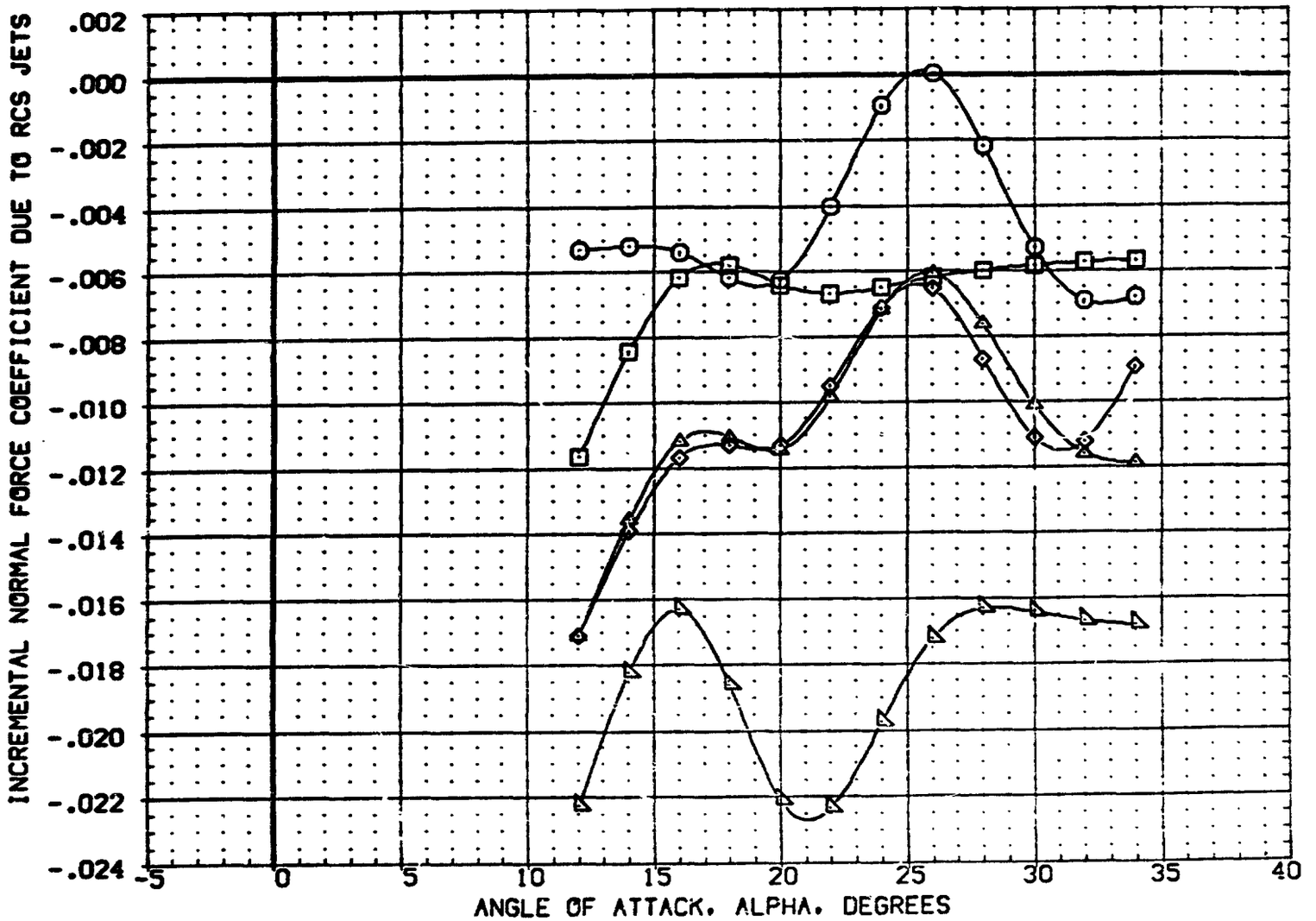


EFFECT OF DOWNWARD FIRING ROLL JET WITH WING OFF

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM005)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(APM006)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(APM007)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(APM008)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(APM009)	▷	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



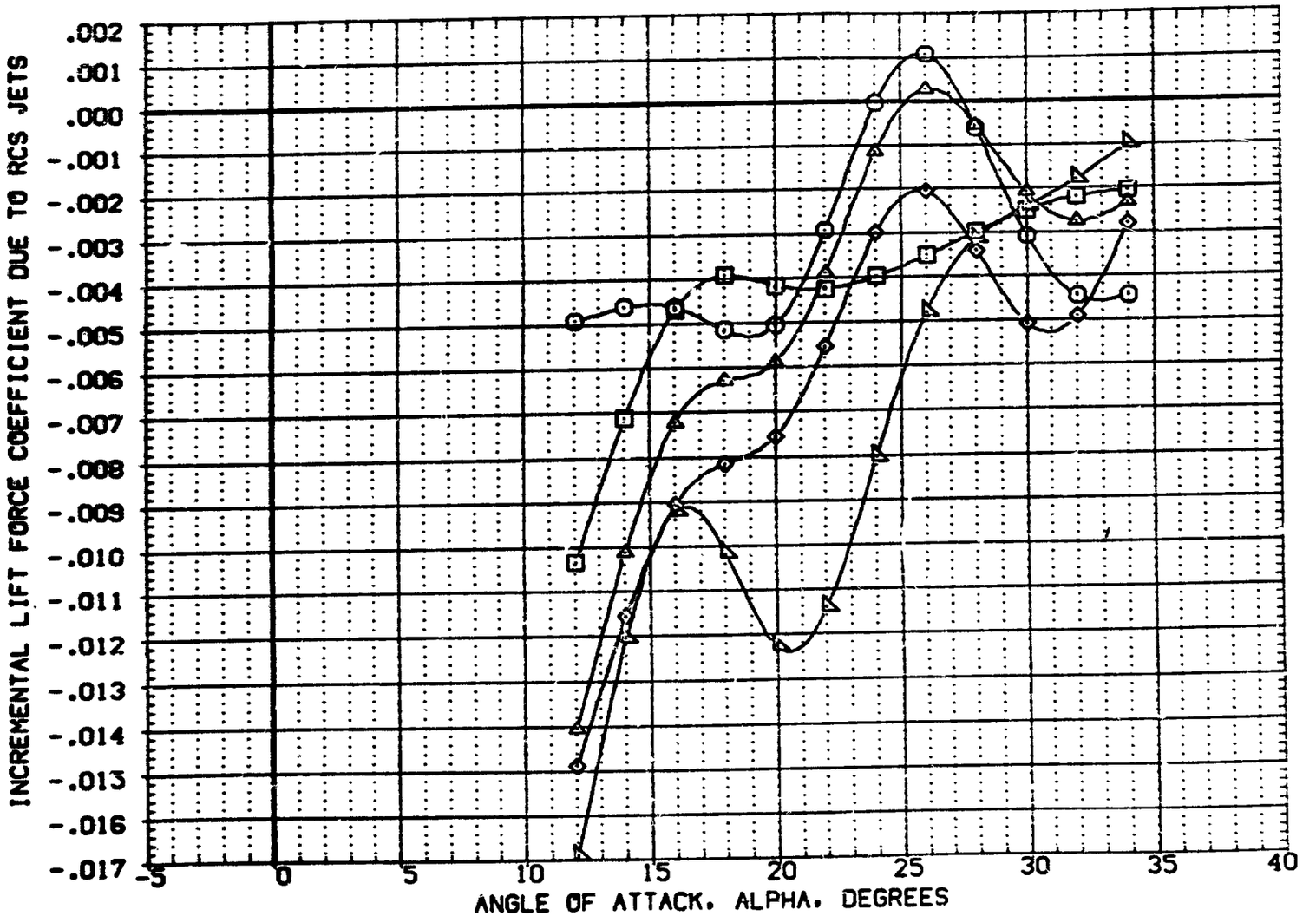
ROLL JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM005)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(APM006)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(APM007)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(APM008)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(APM009)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

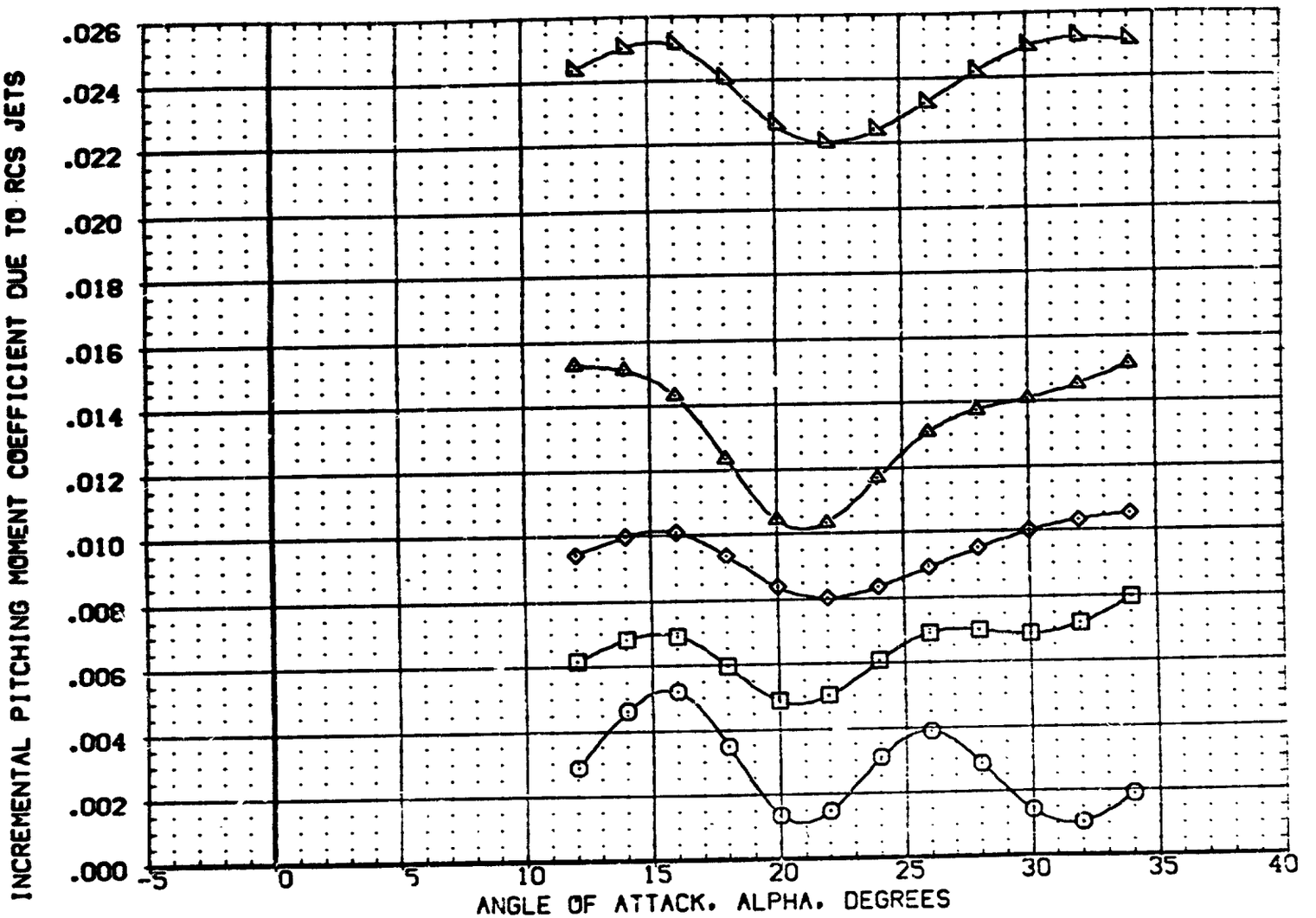


ROLL JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APH005)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.00)	37.000	1.000
(APH006)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.00)	100.000	1.000
(APH007)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	159.000	1.000
(APH008)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	328.000	1.000
(APH009)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	5.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0900	INCHES
SCALE	.0150	

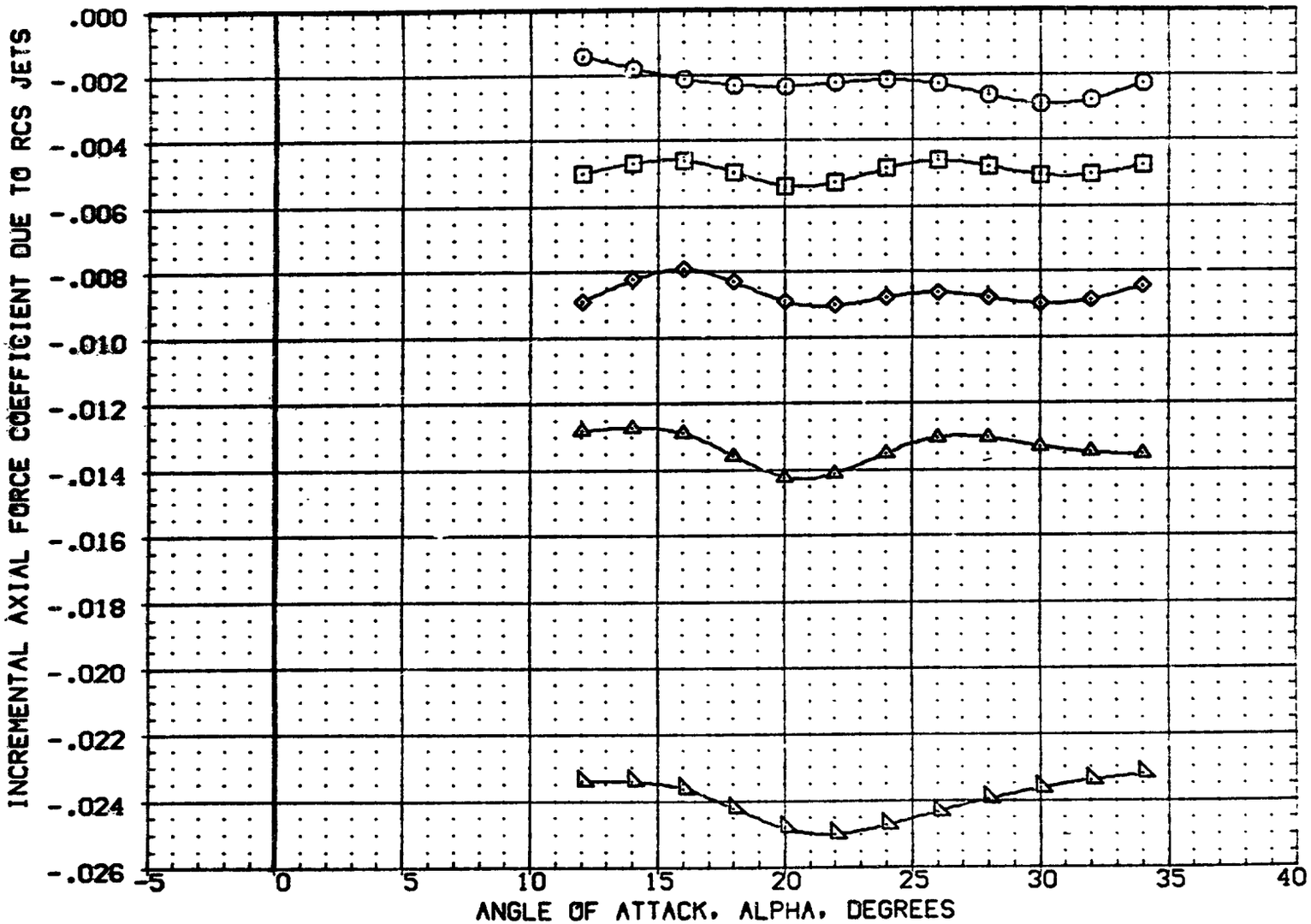


ROLL JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM005)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(APM006)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(APM007)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(APM008)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(APM009)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



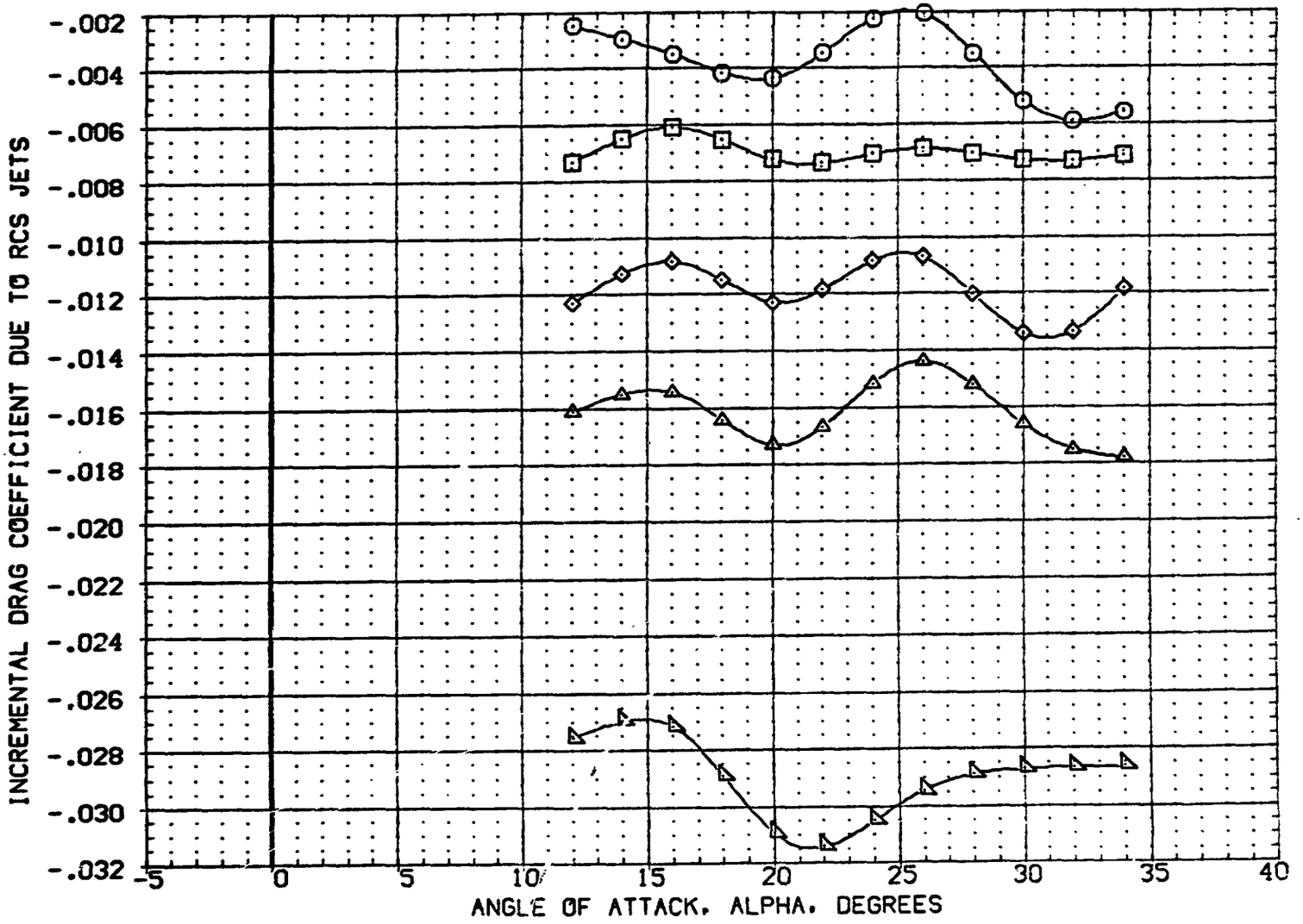
ROLL JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM005)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	37.000	1.000
(APM006)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	100.000	1.000
(APM007)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	199.000	1.000
(APM008)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	328.000	1.000
(APM009)	▷	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	600.000	1.000

REFERENCE INFORMATION

SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

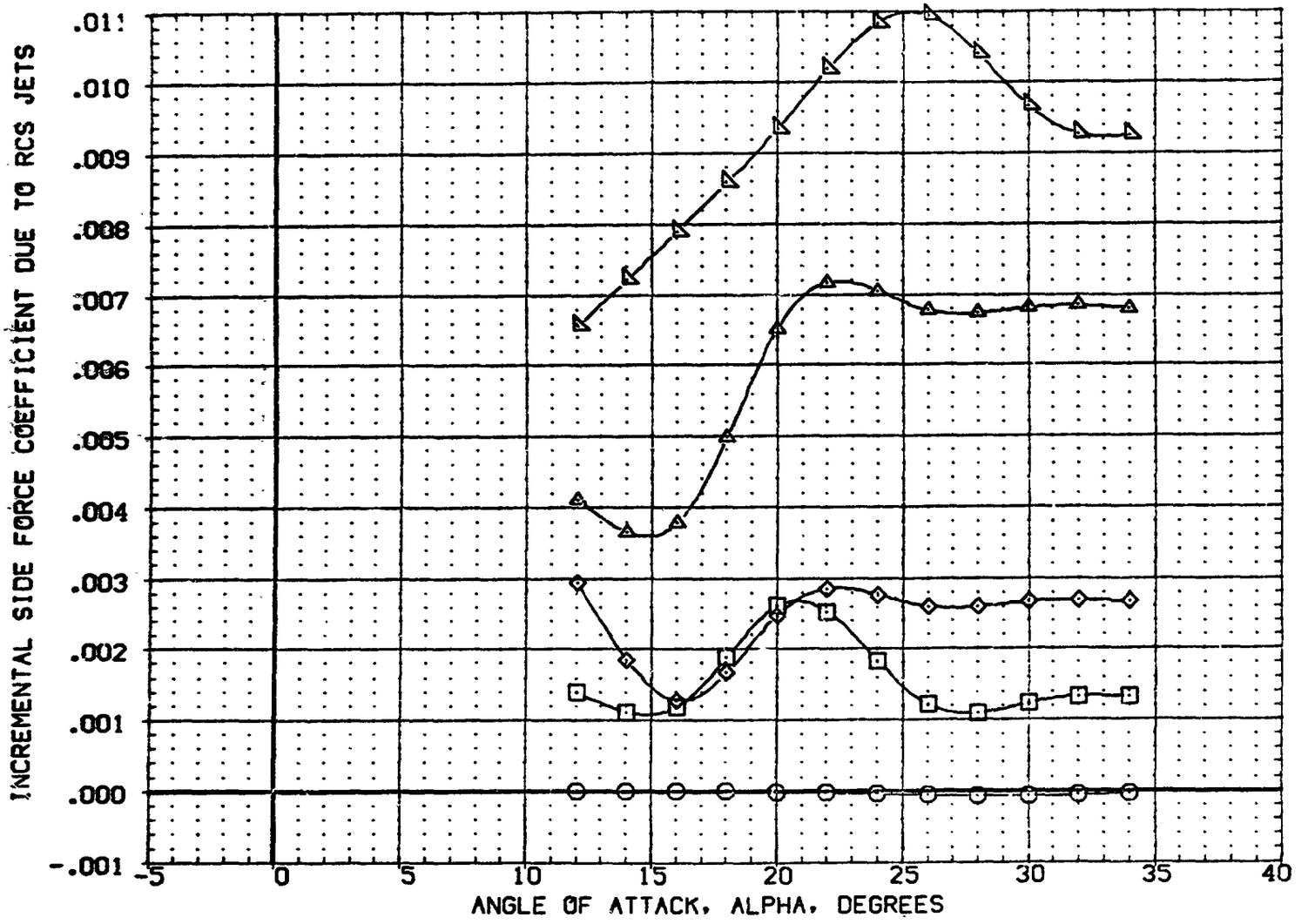


ROLL JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM005)	○	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(APM006)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(APM007)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(APM008)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(APM009)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	500.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

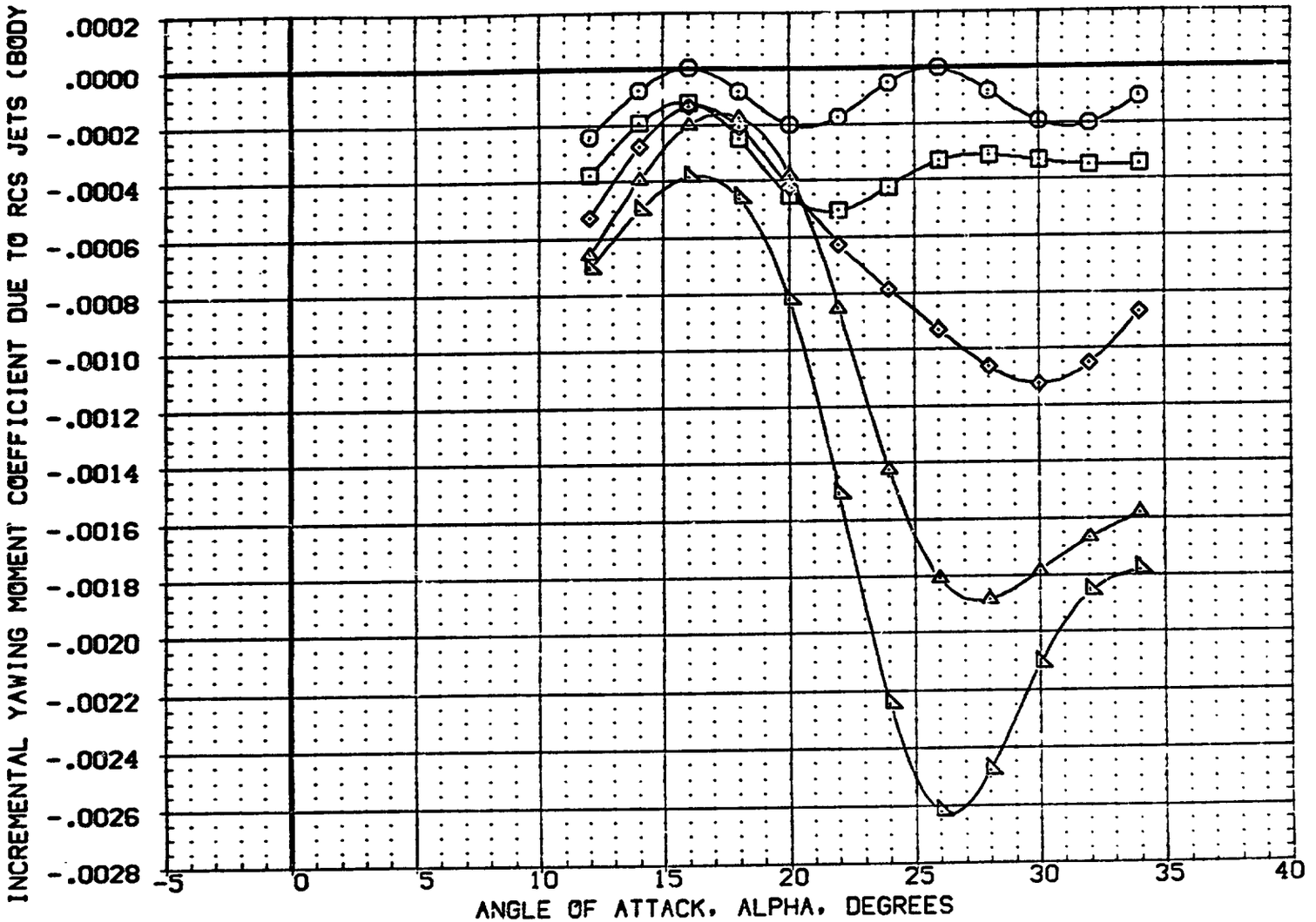


ROLL JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPO-J	RN/L
(APM005)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(APM006)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(APM007)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(APM008)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(APM009)	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

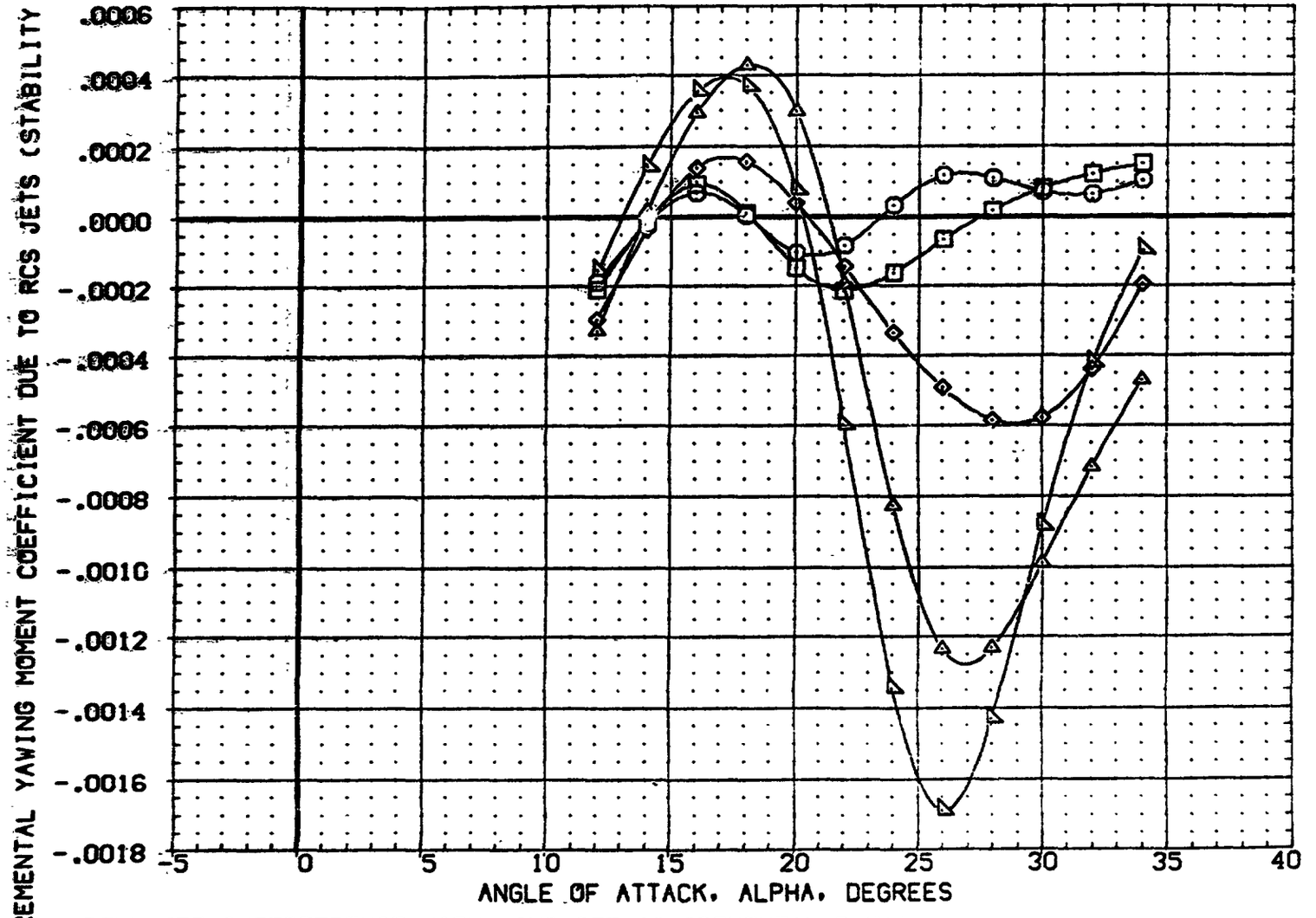


ROLL JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	DLPO-J	RN/L
(APM005)	□	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	37.000	1.000
(APM006)	◇	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	100.000	1.000
(APM007)	△	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	199.000	1.000
(APM008)	▽	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	328.000	1.000
(APM009)	◁	MA-7.UPVT 1031.ROCKWELL PRR ORB. CONF.	BTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	

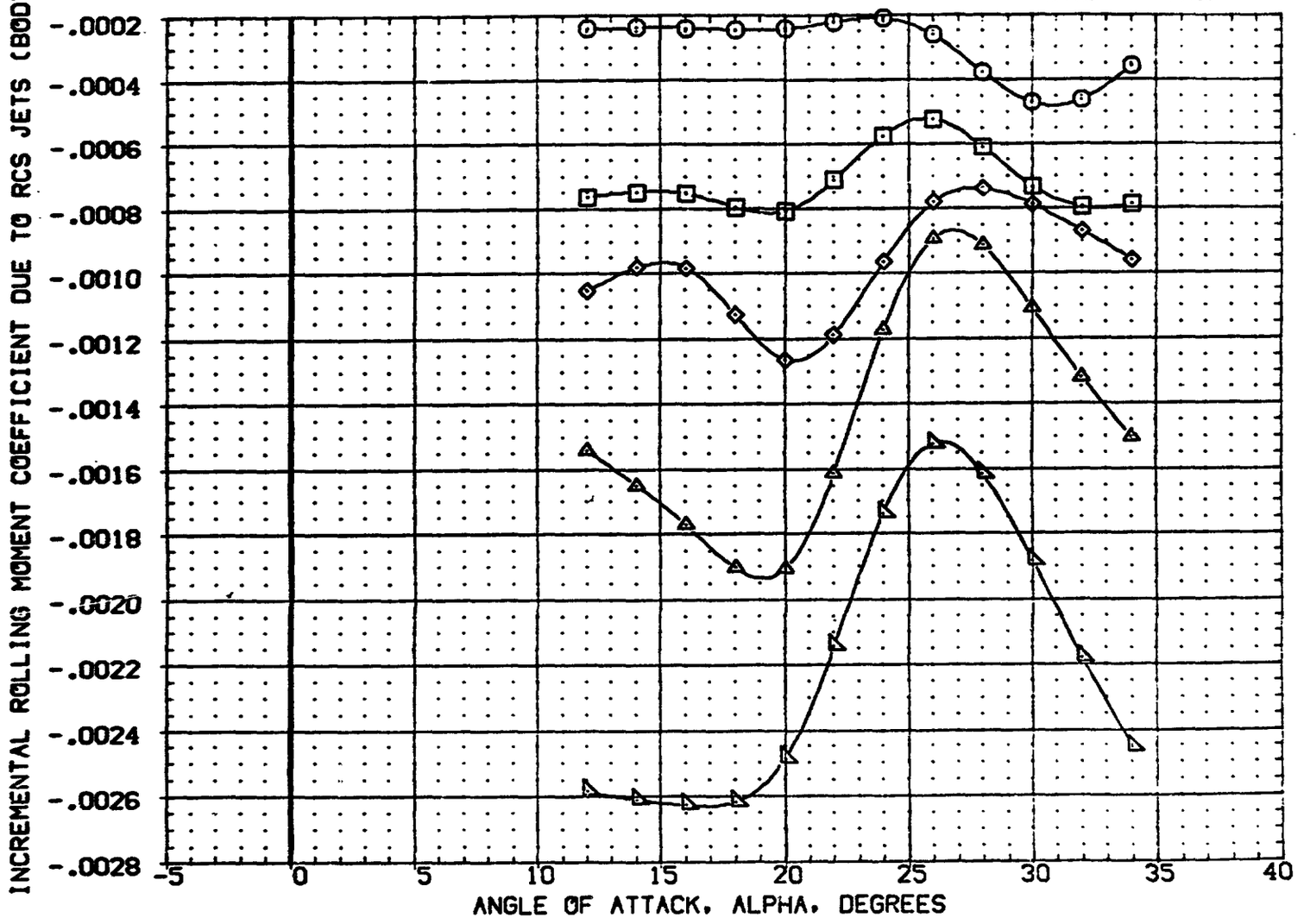


ROLL JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

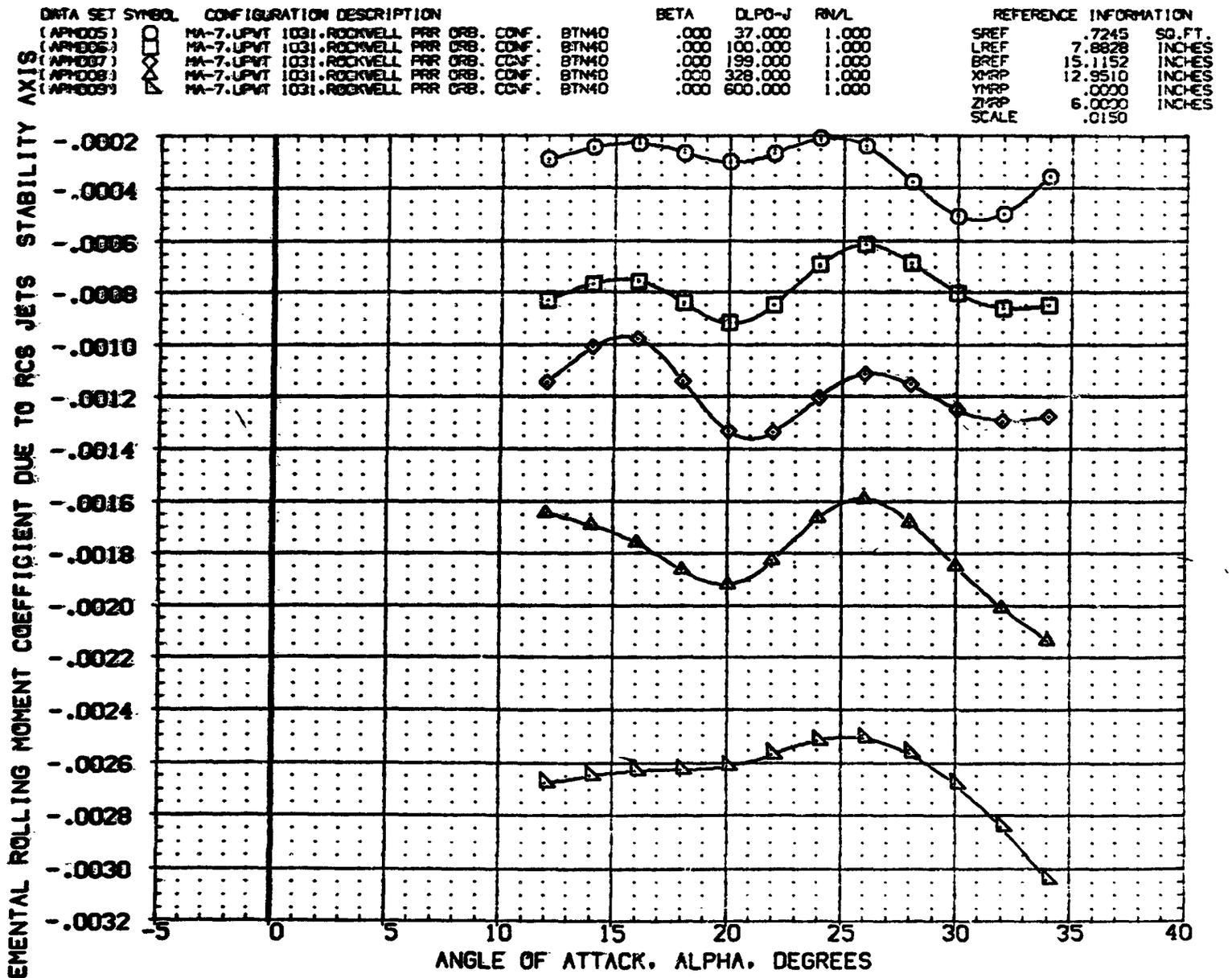
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	DLPD-J	RN/L
(APM005)	○	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	37.000	1.000
(APM006)	□	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	100.000	1.000
(APM007)	◇	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	199.000	1.000
(APM008)	△	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	328.000	1.000
(APM009)	◺	MA-7.UPWT 1031.ROCKWELL PRR ORB. CONF. BTN40	.000	600.000	1.000

REFERENCE INFORMATION		
SREF	.7245	SQ.FT.
LREF	7.8828	INCHES
BREF	15.1152	INCHES
XMRP	12.9510	INCHES
YMRP	.0000	INCHES
ZMRP	6.0000	INCHES
SCALE	.0150	



ROLL JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00



ROLL JET INTERFERENCE WITH WING OFF (INCREMENTAL DATA)

(A)MACH = 4.00

APPENDIX

TABULATED SOURCE DATA

Plotted data tabulations are available on request from DMS.

MA-7,UPWT 1031,ROCKWELL FRR ORB. CONF. BTN1 (RPM001) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 37.000
RN/L = 1.000

RUN NO. 81/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.298	-.00071	.06176	.03694	.02160	-.00025	.00051	.00087	12.05675	5.39326	3.48940
4.000	18.337	-.00108	.11023	.03759	.03707	-.00027	.00039	.00188	13.00867	5.39326	4.44133
4.000	20.403	-.00102	.15628	.03670	.05456	-.00026	.00061	.00151	13.00867	6.34518	3.48940
4.000	25.514	-.00140	.22871	.03579	.07518	-.00051	.00073	.00204	10.15289	7.29711	3.48940
4.000	30.582	-.00096	.31130	.03600	.09680	.00001	.00059	.00095	8.24904	10.15289	3.48940
4.000	35.599	-.00121	.38824	.03515	.11579	.00001	.00053	.00122	7.29711	14.91253	3.48940
	GRADIENT	-.00001	.01409	-.00015	.00408	.00001	.00000	-.00000	-.25463	.38900	-.01751

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN1 (RPM002) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 328.000
RN/L = 1.000

RUN NO. 79/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.365	-.00057	.06194	.03874	.02354	-.00025	.00030	.00086	22.52794	6.34518	4.44133
4.000	15.484	-.00112	.10025	.03742	.03581	-.00028	.00038	.00197	18.72024	5.39326	4.44133
4.000	20.436	-.00100	.16219	.03655	.05349	-.00026	.00061	.00147	15.86445	5.39326	4.44133
4.000	25.494	-.00154	.22874	.03591	.07704	-.00050	.00094	.00206	12.05675	7.29711	4.44133
4.000	30.505	-.00098	.31150	.03637	.09686	.00025	.00058	.00101	9.20096	10.15289	4.44133
4.000	35.614	-.00119	.39429	.03627	.11656	.00001	.00053	.00117	5.39326	16.81638	3.48940
	GRADIENT	-.00002	.01424	-.00009	.00404	.00002	.00001	-.00001	-.70566	.42398	-.02947

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN1 (RPM003) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 600.000
RN/L = 1.000

RUN NO. 80/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.451	-.00114	.08174	.03820	.02347	-.00029	.00016	.00226	26.33565	6.34518	3.48940
4.000	16.457	-.00108	.11008	.03645	.03900	-.00027	.00038	.00188	23.47987	6.34518	3.48940
4.000	20.413	-.00068	.15624	.03608	.05458	-.00026	.00040	.00150	21.57602	6.34518	3.48940
4.000	25.515	-.00140	.22861	.03526	.07711	-.00051	.00073	.00204	14.91253	7.29711	3.48940
4.000	30.549	-.00141	.31148	.03504	.09[illegible]	.00021	.00023	.00240	10.15289	10.15289	3.48940
4.000	35.637	-.00121	.39408	.03560	.116	.00025	.00052	.00122	9.20096	13.96060	3.48940
	GRADIENT	-.00001	.01438	-.00011	.004[illegible]	.00002	.00001	-.00002	-.81109	.31690	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN40 (RPM004) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 1.000

RUN NO. 73/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.389	-.00089	.07352	.03962	.02127	-.00001	.00051	.00083	7.15675	12.86831	3.34904
4.000	16.389	-.00108	.11602	.03793	.03599	-.00003	.00038	.00189	6.20482	12.86831	4.30096
4.000	20.419	-.00100	.16816	.03784	.05426	-.00002	.00061	.00147	6.20482	14.77216	3.34904
4.000	25.464	-.00152	.23491	.03661	.07412	-.00050	.00095	.00202	5.25289	14.77216	3.34904
4.000	30.362	-.00153	.31755	.03670	.09580	.00021	.00045	.00237	5.25289	15.72409	3.34904
4.000	35.617	-.00117	.40062	.03629	.11558	.00001	.00053	.00113	6.20482	15.72409	3.34904
	GRADIENT	-.00003	.01415	-.00013	.00410	.00000	.00000	.00002	-.04998	.13773	-.01756

NA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN40 (RPM005) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.9828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 37.000
RN/L = 1.000

RUN NO. 74/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.350	-.00055	.06783	.03825	.02433	-.00025	.00030	.00081	6.20482	12.86831	3.34904
4.000	16.378	-.00108	.11037	.03578	.04097	-.00027	.00038	.00188	6.20482	12.86831	3.34904
4.000	20.427	-.00086	.16229	.03551	.05544	-.00026	.00040	.00145	5.25289	14.77216	3.34904
4.000	25.486	-.00150	.23508	.03439	.07799	-.00074	.00095	.00196	5.25289	14.77216	3.34904
4.000	30.571	-.00137	.31171	.03379	.09698	-.00027	.00024	.00229	5.25289	15.72409	3.34904
4.000	35.627	-.00116	.39471	.03457	.11860	-.00023	.00054	.00112	6.20482	15.72409	3.34904
	GRADIENT	-.00003	.01414	-.00015	.00404	-.00000	.00001	.00002	-.01495	.13753	.00000

NA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN40 (RPM006) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.9828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 100.000
RN/L = 1.000

RUN NO. 75/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.358	-.00109	.06215	.03479	.02745	-.00077	.00017	.00215	7.15675	12.86831	3.34904
4.000	16.429	-.00160	.11056	.03328	.04295	-.00079	.00025	.00317	7.15675	13.82023	3.34904
4.000	20.481	-.00196	.16244	.03243	.05929	-.00082	.00013	.00415	6.20482	14.77216	3.34904
4.000	25.507	-.00193	.22928	.03197	.08107	-.00102	.00060	.00334	6.20482	14.77216	3.34904
4.000	30.574	-.00192	.31197	.03161	.10273	-.00055	.00011	.00364	7.15675	14.77216	3.34904
4.000	35.619	-.00155	.39501	.03186	.12434	-.00075	.00019	.00240	7.15675	17.62794	3.34904
	GRADIENT	-.00002	.01431	-.00012	.00419	.00000	.00000	.00001	.00248	.16281	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN40 (RPH007) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9310 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 199.000
RN/L = 1.000

RUN NO. 76/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.337	-.00186	.05644	.03093	.03063	-.00105	.00003	.00355	7.15675	13.82023	3.34904
4.000	16.408	-.00180	.10478	.02998	.04807	-.00103	.00025	.00316	7.15675	13.82023	3.34904
4.000	20.408	-.00193	.15690	.02884	.06244	-.00129	.00014	.00406	7.15675	13.82023	3.34904
4.000	25.919	-.00220	.22934	.02795	.08310	-.00131	.00005	.00466	5.25289	13.82023	3.34904
4.000	30.573	-.00209	.30628	.02770	.10595	-.00060	-.00067	.00505	6.20482	14.77216	3.34904
4.000	35.654	-.00196	.39503	.02830	.12636	-.00103	-.00015	.00373	6.20482	16.67602	3.34904
	GRADIENT	-.00002	.01448	-.00012	.00414	.00001	-.00002	.00004	-.05750	.10745	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN40 (RPH008) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9310 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 328.000
RN/L = 1.000

RUN NO. 77/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.360	-.00219	.05678	.02892	.03644	-.00157	-.00010	.00483	8.10867	13.82023	3.34904
4.000	16.400	-.00282	.10518	.02494	.05005	-.00183	.00020	.00582	8.10867	13.82023	3.34904
4.000	20.439	-.00308	.15710	.02355	.06456	-.00189	.00015	.00822	7.15675	13.82023	3.34904
4.000	25.910	-.00364	.22953	.02351	.08709	-.00143	-.00080	.00685	6.20482	13.82023	3.34904
4.000	30.542	-.00365	.30655	.02334	.10991	-.00096	-.00130	.00920	5.25289	14.77216	3.34904
4.000	35.642	-.00338	.38933	.02272	.13141	-.00164	-.00099	.00785	7.15675	15.72409	3.34904
	GRADIENT	-.00005	.01431	-.00015	.00414	.00002	-.00006	.00015	-.08495	.07760	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN40 (RPK009) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 19.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 800.000
RN/L = 1.000

RUN NO. 78/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.343	-.00339	.05152	.01631	.04558	-.00280	-.00016	.00748	8.10867	11.91638	3.34904
4.000	16.413	-.00482	.09985	.01420	.08108	-.00266	.00000	.00992	8.10867	11.91638	3.34904
4.000	20.430	-.00488	.14587	.01292	.07673	-.00245	-.00034	.01099	6.20482	13.82023	3.34904
4.000	25.531	-.00907	.21627	.01217	.09740	-.00204	-.00164	.01302	6.20482	13.82023	3.34904
4.000	30.567	-.00474	.30110	.01314	.12088	-.00176	-.00157	.01188	5.25289	15.72409	3.34904
4.000	35.644	-.00445	.38415	.01317	.14052	-.00267	-.00125	.01049	7.15675	16.67602	3.34904
	GRADIENT	-.00003	.01431	-.00011	.00412	.00002	-.00007	.00013	-.07744	.21493	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWN41 (RPN010) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 19.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 1.000

RUN NO. 67/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.447	-.00059	.29077	.05778	-.03466	.00022	.00031	.00092	7.21638	8.16831	5.31253
4.000	16.529	-.00032	.37258	.05428	-.04021	.00050	.00068	-.00033	6.26445	7.21638	5.31253
4.000	20.560	-.00042	.50418	.05319	-.04763	.00051	.00078	-.00058	4.36060	7.21638	4.36060
4.000	25.692	-.00038	.68434	.05757	-.05995	.00076	.00086	-.00095	4.36060	7.21638	4.36060
4.000	30.709	-.00060	.87898	.03689	-.08086	.00077	.00107	-.00105	4.36060	6.26445	4.36060
4.000	35.801	.00043	1.08536	.05369	-.10191	.00129	.00098	-.00256	4.36060	5.31253	4.36060
	GRADIENT	.00003	.03568	-.00016	-.00288	.00004	.00003	-.00012	-.11671	-.10438	-.04469

NA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWN41 (RPH011) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 13.1132 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 37.000
RN/L = 1.000

RUN NO. 68/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.400	-.00081	.25037	.05747	-.03458	.00046	.00031	.00097	5.31253	6.26445	4.36060
4.000	16.905	-.00091	.36642	.05784	-.03909	.00046	.00054	.00113	5.31253	6.26445	4.36060
4.000	20.547	-.00044	.49814	.05783	-.04650	.00051	.00078	-.00053	5.31253	6.26445	4.36060
4.000	25.704	-.00036	.68339	.05771	-.05992	.00052	.00087	-.00100	4.36060	6.26445	4.36060
4.000	30.809	-.00028	.87200	.05614	-.07965	.00076	.00085	-.00101	5.31253	6.26445	4.36060
4.000	35.880	.00043	1.08409	.05415	-.10374	.00105	.00099	-.00260	4.36060	5.31253	5.31253
	GRADIENT	.00004	.03558	-.00014	-.00294	.00002	.00003	-.00015	-.03471	-.02970	.02970

NA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWN41 (RPH012) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 13.1132 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 100.000
RN/L = 1.000

RUN NO. 69/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.401	-.00081	.25046	.05752	-.03289	.00046	.00030	.00097	5.31253	6.26445	4.36060
4.000	16.906	-.00077	.36619	.05838	-.03910	.00046	.00033	.00111	5.31253	6.26445	5.31253
4.000	20.569	-.00029	.50363	.05820	-.04758	.00051	.00057	-.00059	5.31253	6.26445	5.31253
4.000	25.682	-.00095	.68324	.05784	-.05989	.00072	.00072	.00046	4.36060	6.26445	5.31253
4.000	30.778	-.00026	.87780	.05688	-.08075	.00076	.00085	-.00106	5.31253	5.31253	5.31253
4.000	35.908	-.00011	1.08975	.05400	-.10292	.00101	.00085	-.00125	4.36060	5.31253	5.31253
	GRADIENT	.00002	.03583	-.00014	-.00298	.00002	.00003	-.00010	-.03472	-.04709	.02728

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWN41 (RPM013) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 328.000
RN/L = 1.000

RUN NO. 70/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.410	-.00061	.25023	.05740	-.03266	.00046	.00030	.00097	6.26445	6.26445	3.40867
4.000	16.549	-.00075	.37168	.05804	-.04013	.00046	.00033	.00106	5.31253	6.26445	4.36060
4.000	20.589	-.00042	.50321	.05872	-.04757	.00051	.00078	-.00057	4.36060	6.26445	4.36060
4.000	25.690	-.00040	.67700	.05663	-.05870	.00076	.00086	-.00090	4.36060	6.26445	4.36060
4.000	30.768	-.00026	.87767	.05641	-.07883	.00076	.00085	-.00106	5.31253	5.31253	4.36060
4.000	35.891	-.00015	1.08344	.05348	-.10363	.00124	.00084	-.00114	4.36060	5.31253	3.40867
	GRADIENT	.00002	.03556	-.00017	-.00295	.00003	.00003	-.00010	-.05466	-.04716	-.00246

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWN41 (RPM014) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 328.000
RN/L = 1.000

RUN NO. 71/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.391	-.00061	.25033	.05812	-.03271	.00046	.00030	.00097	6.26445	6.26445	4.36060
4.000	16.500	-.00089	.37195	.05843	-.03829	.00046	.00054	.00108	5.31253	6.26445	4.36060
4.000	20.594	-.00100	.50894	.05801	-.04670	.00071	.00064	.00083	4.36060	6.26445	3.40867
4.000	25.682	-.00095	.68261	.05665	-.05978	.00072	.00072	.00046	4.36060	6.26445	3.40867
4.000	30.768	-.00026	.87700	.05637	-.07877	.00076	.00085	-.00106	4.36060	5.31253	3.40867
4.000	35.929	-.00011	1.08900	.05382	-.10286	.00101	.00085	-.00124	4.36060	5.31253	4.36060
	GRADIENT	.00003	.03562	-.00018	-.00296	.00002	.00002	-.00011	-.07186	-.04704	-.01481

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWN41 (RPM015) (06 FEB 74)

REFERENCE DATA

SREF = .7243 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 19.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 600.000
RN/L = 1.000

RUN NO. 72/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.460	-.00117	.25596	.05758	-.03375	.00042	.00017	.00233	6.26445	6.26445	4.36060
4.000	16.530	-.00089	.37174	.05820	-.03825	.00046	.00054	.00107	5.31253	6.26445	3.40867
4.000	20.573	-.00100	.50900	.05815	-.04672	.00071	.00064	.00084	4.36060	6.26445	3.40867
4.000	25.684	-.00093	.68863	.05721	-.06092	.00072	.00072	.00041	4.36060	6.26445	3.40867
4.000	30.804	-.00095	.88271	.05612	-.07986	.00072	.00093	.00031	4.36060	5.31253	4.36060
4.000	35.894	-.00082	1.08868	.05344	-.10280	.00097	.00092	.00017	3.40867	5.31253	4.36060
	GRADIENT	.00001	.03569	-.00017	-.00296	.00002	.00003	-.00008	-.10177	-.04724	.01995

MA-7,UPWT 1031,ROCKWELL-PRR ORB. CONF. BWTN1 (RPMD16) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9310 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 15/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.900	-.155	-.00034	-.01637	.08728	-.00920	-.00008	.00029	-.00044	108.93403	124.16486	48.96263
2.900	4.111	.00132	.11155	.08401	-.02545	.00007	.00018	-.00092	104.17439	108.93403	53.72226
2.900	8.362	.00307	.23684	.08105	-.04194	.00027	.00027	-.00189	89.89549	93.70320	47.05877
2.900	12.682	.00261	.36629	.07750	-.05682	.00037	.00025	-.00178	61.33768	80.37622	40.39529
2.900	16.967	.00231	.50349	.07430	-.07174	.00043	.00044	-.00192	47.05877	66.09732	34.68372
2.900	21.300	.00172	.64945	.07078	-.08569	.00048	.00055	-.00177	31.82794	52.77034	34.68372
	GRADIENT	.00039	.02999	-.00077	-.00381	.00004	-.00003	-.00011	-1.11572	-3.57028	1.11571

RUN NO. 19/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.221	-.00056	-.02462	.07996	-.01159	.00027	.00031	-.00037	74.66466	80.37622	25.16445
2.950	4.014	.00087	.08571	.07675	-.02407	.00032	.00037	-.00102	74.66466	69.90502	28.02024
2.950	8.369	.00176	.20655	.07423	-.03507	.00029	.00047	-.00166	56.57805	57.52997	24.21253
2.950	12.547	.00220	.32286	.07124	-.04634	.00048	.00044	-.00200	38.49143	48.01070	20.40482
2.950	16.765	.00215	.45260	.06894	-.06001	.00054	.00043	-.00199	27.06831	39.44336	17.54904
2.950	21.013	.00228	.59393	.06602	-.07237	.00054	.00042	-.00202	21.35675	30.87602	16.59711
	GRADIENT	.00034	.02605	-.00076	-.00295	.00001	.00001	-.00015	-.00000	-2.47254	.67433

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM017) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -5.000 PO-JET = .000
RN/L = 3.000

RUN NO. 18/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
2.500	-.178	-5.17613	-.01498	.08868	-.01033	-.00223	-.00071	.07813	148.91496	147.96304	46.10685
2.500	4.046	-5.16699	.10991	.08560	-.02724	-.00112	.00057	.07226	128.92450	130.82835	46.10685
2.500	8.408	-5.15995	.23870	.08140	-.04338	.00076	.00180	.06730	109.88596	114.64559	43.25107
2.500	12.710	-5.15773	.36759	.07765	-.05847	.00262	.00310	.06439	94.65512	100.36669	37.53951
2.500	17.149	-5.15733	.50895	.07391	-.07282	.00411	.00515	.0613	80.37622	85.13586	34.68372
2.500	21.293	-5.15969	.65093	.07023	-.08594	.00535	.00704	.05999	73.71273	71.80888	31.82794
	GRADIENT	.00216	.02957	-.00073	-.00400	.00026	.00030	-.00139	-4.73259	-4.05651	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM018) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 187.000
RN/L = 3.000

RUN NO. 16/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
2.500	-.190	-.00045	-.01503	.08766	-.00863	-.00008	.00033	-.00045	184.13626	51.81841	48.01070
2.500	4.107	.00145	.11419	.08431	-.02638	.00017	.00014	-.00092	172.71314	50.86648	51.81841
2.500	8.403	.00196	.23950	.08124	-.04246	.00025	.00021	-.00129	153.67460	48.01070	46.10685
2.500	12.665	.00265	.36756	.07763	-.05750	.00032	.00025	-.00180	127.02064	42.29914	39.44336
2.500	17.096	.00237	.50776	.07428	-.07209	.00043	.00044	-.00195	99.41476	33.73180	34.68372
2.500	21.303	.00203	.65126	.07071	-.08599	.00049	.00068	-.00208	79.42429	35.63565	33.73180
	GRADIENT	.00044	.03007	-.00078	-.00413	.00006	-.00004	-.00011	-2.65839	-.22153	.88613

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM019) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -5.000 PO-JET = 187.000
RN/L = 3.000

RUN NO. 17/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.500	-.214	-5.17555	-.01631	.08674	-.01094	-.00228	-.00068	.07783	215.54985	59.43383	46.10685
2.500	4.136	-5.16595	.11380	.08569	-.02796	-.00104	.00068	.07163	180.32856	50.86648	45.15492
2.500	8.361	-5.15979	.23871	.08170	-.04340	.00070	.00175	.06728	152.72267	43.25107	41.34721
2.500	12.719	-5.15757	.36768	.07765	-.05849	.00256	.00305	.06439	135.58799	36.58758	36.58758
2.500	16.975	-5.15725	.50266	.07420	-.07208	.00400	.00510	.06140	121.30908	33.73180	33.73180
2.500	21.268	-5.15921	.64859	.07028	-.08548	.00552	.00707	.05976	109.88596	37.53951	30.87602
	GRADIENT	.00221	.02991	-.00070	-.00391	.00029	.00031	-.00143	-8.09685	-1.96951	-.21883

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM020) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 157.000
RN/L = 3.000

RUN NO. 20/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.226	-.00055	-.02310	.08005	-.01233	.00027	.00031	-.00038	125.11679	29.92409	25.16445
2.950	3.961	.00072	.08415	.07707	-.02427	.00032	.00042	-.00101	115.59752	27.06831	26.11638
2.950	8.246	.00142	.20337	.07438	-.03496	.00035	.00057	-.00161	97.51091	24.21253	24.21253
2.950	12.527	.00220	.32282	.07141	-.04683	.00048	.00044	-.00200	77.52044	18.50096	19.45289
2.950	16.847	.00274	.45418	.06881	-.06028	.00055	.00046	-.00235	55.62612	18.50096	17.54904
2.950	21.077	.00217	.59479	.06555	-.07255	.00048	.00047	-.00204	45.15492	20.40482	18.50096
	GRADIENT	.00030	.02561	-.00071	-.00285	.00001	.00003	-.00015	-2.27353	-.68206	.22735

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM021) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0130

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 1.000

RUN NO. 1/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.418	-.00005	.24297	.06200	-.02922	.00053	.00054	-.00147	8.02977	6.12591	2.31821
4.000	16.526	-.00021	.36044	.06053	-.03430	.00052	.00051	-.00131	7.07784	6.12591	2.31821
4.000	20.559	-.00032	.49785	.06058	-.04278	.00075	.00045	-.00093	5.17399	6.12591	2.31821
4.000	25.703	-.00037	.67676	.05949	-.05512	.00047	.00065	-.00098	5.17399	6.12591	2.31821
4.000	30.767	-.00016	.87078	.05653	-.07587	.00085	.00042	-.00101	6.12591	4.22206	2.31821
4.000	35.902	.00043	1.07688	.05301	-.09886	.00081	.00078	-.00262	5.17399	4.22206	2.31821
	GRADIENT	.00002	.03566	-.00036	-.00297	.00001	.00001	-.00003	-.09922	-.09425	-.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM022) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -2.500 PO-JET = .000
RN/L = 1.000

RUN NO. 8/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.391	-2.51284	.24274	.06210	-.02733	.00114	.00156	.02860	8.98170	7.07784	2.31821
4.000	16.486	-2.51291	.35945	.06115	-.03422	.00190	.00227	.02756	8.02977	6.12591	1.36628
4.000	20.569	-2.51345	.49640	.06076	-.04071	.00237	.00284	.02802	8.02977	6.12591	1.36628
4.000	25.659	-2.51336	.67558	.05899	-.05488	.00262	.00379	.02671	7.07784	5.17399	1.36628
4.000	30.764	-2.51287	.86311	.05755	-.07258	.00418	.00289	.02694	6.12591	6.12591	1.36628
4.000	35.880	-2.51157	1.07429	.05357	-.09652	.00470	.00415	.02262	8.02977	5.17399	1.36628
	GRADIENT	.00004	.03546	-.00034	-.00290	.00015	.00009	-.00020	-.06693	-.06201	-.02729

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM023) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = -5.000 PO-JET = .000
RN/L = 1.000

RUN NO. 7/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.476	-5.04109	.24179	.06183	-.02720	.00255	.00304	.05598	10.88555	8.98170	2.31821
4.000	16.505	-5.04104	.35824	.06137	-.03404	.00383	.00451	.05370	9.93362	8.02977	1.36628
4.000	20.636	-5.04190	.50059	.06051	-.04149	.00503	.00547	.05429	8.98170	8.02977	1.36628
4.000	25.667	-5.04080	.66776	.05879	-.05338	.00630	.00667	.05048	8.02977	7.07784	1.36628
4.000	30.822	-5.04013	.86649	.05813	-.07325	.00839	.00654	.04934	7.07784	7.07784	1.36628
4.000	35.947	-5.03898	1.07190	.05411	-.09609	.00891	.00800	.04509	7.07784	8.98170	1.36628
	GRADIENT	.00009	.03543	-.00031	-.00290	.00028	.00019	-.00044	-.17111	-.01961	-.02723

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM024) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 11/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.704	-.00438	.25423	.06078	-.03157	.00018	.00030	.00240	20.40482	17.54904	5.17399
4.000	16.868	-.00464	.37382	.05979	-.03934	.00034	.00043	.00235	17.54904	14.69326	5.17399
4.000	21.078	-.00461	.50519	.05922	-.04661	.00034	.00049	.00228	14.69326	12.78940	5.17399
4.000	26.383	-.00390	.69111	.05872	-.06044	.00034	.00052	.00178	11.83748	11.83748	5.17399
4.000	31.708	-.00346	.89174	.05664	-.08002	.00079	.00036	.00173	12.78940	13.74133	5.17399
4.000	37.056	-.00230	1.11015	.05352	-.10417	.00071	.00067	.00052	12.78940	9.93362	5.17399
	GRADIENT	.00009	.03521	-.00027	-.00294	.00002	.00001	-.00007	-.31238	-.23871	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPH025) (16 JAN 74)

REFERENCE DATA

SREF = .7243 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 5.000

RUN NO. 13/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.955	-.00504	.28131	.06052	-.03215	.00044	.00033	.00151	30.87602	30.87602	8.98170
4.000	17.305	-.00427	.38513	.05937	-.04001	.00041	.00040	.00106	24.21253	25.16445	8.98170
4.000	21.604	-.00392	.52037	.05850	-.04730	.00046	.00044	.00088	23.26060	19.45289	8.98170
4.000	27.212	-.00260	.71743	.05735	-.06321	.00051	.00053	.00023	14.69326	17.54904	8.98170
	GRADIENT	.00016	.03204	-.00022	-.00215	.00001	.00001	-.00009	-1.06054	-.95339	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPH026) (16 JAN 74)

REFERENCE DATA

SREF = .7243 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 35.000
RN/L = 1.000

RUN NO. 2/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.425	-.00063	.23732	.06141	-.02813	.00025	.00041	-.00008	7.07784	3.27013	2.31821
4.000	16.516	-.00077	.36023	.06054	-.03431	.00024	.00038	.00004	7.07784	3.27013	2.31821
4.000	20.566	-.00089	.49152	.06038	-.04166	.00047	.00032	.00047	8.02977	3.27013	2.31821
4.000	25.678	-.00037	.67075	.05732	-.05581	.00025	.00065	-.00099	8.98170	3.27013	2.31821
4.000	30.775	-.00071	.86466	.05586	-.07476	.00033	.00029	.00033	6.12591	3.27013	2.31821
4.000	35.889	-.00010	1.07041	.05250	-.09584	.00005	.00065	-.00132	6.12591	3.27013	2.31821
	GRADIENT	.00002	.03555	-.00038	-.00290	-.00001	.00001	-.00004	-.04475	.00000	-.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM027) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 100.000
RN/L = 3.000

RUN NO. 12/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.698	-.00436	.29661	.06091	-.03135	.00026	.00030	.00240	28.02024	7.07734	5.17399
4.000	16.988	-.00464	.37443	.05993	-.03941	.00034	.00043	.00236	22.30867	6.12591	5.17399
4.000	21.111	-.00568	.50716	.05915	-.04633	.00036	.00047	.00179	22.30867	6.12591	5.17399
4.000	26.401	-.00546	.68722	.05831	-.05907	.00019	.00064	.00131	27.06831	6.12591	5.17399
4.000	31.725	-.00541	.88790	.05603	-.07929	.00039	.00037	.00168	25.16445	6.12591	5.17399
4.000	37.053	-.00249	1.10831	.05332	-.10384	.00023	.00082	.00046	15.64518	6.12591	5.17399
	GRADIENT	.00008	.03496	-.00030	-.00291	-.00000	.00002	-.00007	-.28447	-.02618	-.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM028) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 170.000
RN/L = 5.000

RUN NO. 14/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.978	-.00443	.26251	.06049	-.03199	.00040	.00036	.00121	48.96263	10.88555	9.93362
4.000	17.306	-.00429	.36513	.05938	-.03963	.00045	.00040	.00107	40.39529	9.93362	8.98170
4.000	21.636	-.00406	.52202	.05839	-.04755	.00051	.00049	.00088	42.29914	9.93362	8.98170
4.000	27.153	-.00272	.71516	.05720	-.06239	.00037	.00057	.00022	42.29914	9.93362	9.93362
	GRADIENT	.00012	.03199	-.00023	-.00213	-.00000	.00002	-.00007	-.36807	-.05866	.00514

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM029) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1132 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 188.000
RN/L = 1.000

RUN NO. 3/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.428	-.0011	.23741	.06085	-.02624	-.00003	.00027	.00127	32.77987	3.27013	2.31821
4.000	16.533	-.00134	.35424	.05981	-.03318	-.00004	.00024	.00144	28.02024	3.27013	2.31821
4.000	20.544	-.00041	.48571	.05880	-.04053	-.00020	.00068	-.00104	20.40482	3.27013	2.31821
4.000	25.709	-.00113	.66469	.05763	-.05292	-.00100	.00096	.00022	11.83748	3.27013	2.31821
4.000	30.781	-.00092	.85276	.05519	-.07260	-.00086	.00074	.00018	7.07784	3.27013	2.31821
4.000	35.896	-.00267	1.06432	.05177	-.09668	-.00119	.00096	-.00011	6.12591	3.27013	2.31821
	GRADIENT	.00001	.03525	-.00037	-.00295	-.00006	.00003	-.00005	-1.22827	.00000	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM030) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1132 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 310.000
RN/L = 1.000

RUN NO. 4/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.445	-.00175	.23728	.06010	-.02620	-.00007	.00013	.00267	35.63565	3.27013	2.31821
4.000	16.524	-.00131	.35428	.05875	-.03125	-.00027	.00025	.00138	27.06831	3.27013	2.31821
4.000	20.557	-.00159	.49172	.05868	-.03962	-.00123	.00064	.00152	12.78940	3.27013	2.31821
4.000	25.644	-.00190	.66516	.05744	-.05300	-.00199	.00127	.00144	9.93362	3.27013	2.31821
4.000	30.845	-.00210	.86440	.05535	-.07110	-.00165	.00069	.00275	7.07784	2.31821	2.31821
4.000	35.899	-.00211	1.06440	.05180	-.09294	-.00174	.00090	.00260	6.12591	2.31821	2.31821
	GRADIENT	-.00003	.03541	-.00032	-.00285	-.00008	.00003	.00003	-1.24133	-.04724	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPH031) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = 5.000 MO-JET = 310.000
RN/L = 1.000

RUN NO. 5/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.408	5.04880	.23922	.06181	-.02477	-.00449	-.00293	-.04685	36.58758	3.27013	2.31821
4.000	16.588	5.04885	.36224	.06034	-.03294	-.00620	-.00368	-.04573	14.69326	3.27013	2.31821
4.000	20.558	5.04858	.49400	.06006	-.04043	-.00698	-.00469	-.04417	8.98170	2.31821	1.36628
4.000	25.686	5.04882	.66749	.05817	-.05362	-.00803	-.00586	-.04299	6.12591	2.31821	1.36628
4.000	30.785	5.04893	.83606	.05768	-.06985	-.01012	-.00611	-.04067	5.17399	2.31821	1.36628
4.000	35.867	5.04526	1.06789	.05340	-.09203	-.01077	-.00679	-.03823	4.22206	2.31821	2.31821
	GRADIENT	-.00006	.03522	-.00032	-.00281	-.00027	-.00017	.00036	-1.13161	-.04465	-.01483

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPH032) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = -2.500 MO-JET = 310.000
RN/L = 1.000

RUN NO. 9/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.410	-2.51328	.24274	.06196	-.02753	.00110	.00121	.02999	36.58758	4.22206	1.36628
4.000	16.527	-2.51344	.35955	.06087	-.03235	.00138	.00215	.02885	29.92409	3.27013	1.36628
4.000	20.575	-2.51368	.48476	.05844	-.03845	.00185	.00249	.02939	36.58758	3.27013	1.36628
4.000	25.679	-2.51367	.67009	.05712	-.05194	.00095	.00446	.02642	15.64518	3.27013	1.36628
4.000	30.752	-2.51385	.85786	.05645	-.06972	.00224	.00364	.02802	7.07784	2.31821	1.36628
4.000	35.909	-2.51241	1.06298	.05219	-.09256	.00251	.00469	.02368	6.12591	2.31821	1.36628
	GRADIENT	.00002	.03509	-.00038	-.00276	.00005	.00014	-.00023	-1.47875	-.07445	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM033) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -5.000 PO-JET = 310.000
RN/L = 1.000

RUN NO. 6/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.430	-5.04052	.24181	.08155	-.02718	.00259	.00318	.05458	43.25107	3.27013	2.31821
4.000	16.538	-5.04086	.36419	.06114	-.03514	.00359	.00431	.05359	38.49143	3.27013	2.31821
4.000	20.642	-5.04190	.49477	.06003	-.04040	.00479	.00548	.05428	29.92409	3.27013	2.31821
4.000	25.657	-5.04083	.66814	.05714	-.05151	.00511	.00691	.05022	34.68372	3.27013	2.31821
4.000	30.781	-5.03982	.85379	.05621	-.07116	.00629	.00736	.04761	15.64518	3.27013	1.36628
4.000	35.886	-5.03911	1.06088	.05221	-.09209	.00677	.00847	.04472	11.83748	3.27013	2.31821
	GRADIENT	.00007	.03491	-.00039	-.00272	.00018	.00022	-.00044	-1.34383	.00000	-.01736

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM034) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 537.000
RN/L = 3.000

RUN NO. 912/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.717	-.00495	.25881	.08067	-.03134	.00024	.00026	.00267	73.71273	6.12591	6.12591
4.000	16.809	-.00490	.37445	.05953	-.03675	.00034	.00036	.00235	76.56851	6.12591	6.12591
4.000	21.129	-.00514	.50522	.05815	-.04593	.00017	.00045	.00271	53.72226	7.07784	7.07784
4.000	26.308	-.00410	.68550	.05735	-.05873	-.00008	.00108	.00117	35.63365	6.12591	6.12591
4.000	31.680	-.00416	.86629	.05553	-.07836	-.00065	.00089	.00151	18.50096	6.12591	5.17399
4.000	37.039	-.00414	1.10277	.05276	-.10219	-.00091	.00111	.00124	10.88555	6.12591	5.17399
	GRADIENT	.00004	.03485	-.00050	-.00287	-.00006	.00004	-.00007	-2.96026	-.00720	-.05274

NA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (RPM035) (16 JAN 74)

REFERENCE DATA

SREF = .7845 SQ.FT. XMRP = 12.9310 INCHES
LREF = 7.0628 INCHES YMRP = .0000 INCHES
BREF = 19.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 600.000
RN/L = 1.000

RUN NO. 10/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.418	-.00336	.23785	.06033	-.02447	-.00139	-.00025	.00661	34.66372	3.27013	1.36628
4.000	16.903	-.00367	.34923	.05888	-.02851	-.00234	.00037	.00665	21.35675	3.27013	1.36628
4.000	20.638	-.00419	.48640	.05828	-.03697	-.00283	.00075	.00689	11.83748	3.27013	1.36628
4.000	25.687	-.00461	.68003	.05660	-.04829	-.00382	.00159	.00677	8.98170	2.31821	1.36628
4.000	30.782	-.00504	.85375	.05534	-.06719	-.00305	.00025	.00961	5.12591	2.31821	1.36628
4.000	35.957	-.00410	1.06518	.05251	-.09131	-.00353	.00116	.00649	5.17399	2.31821	1.36628
	GRADIENT	-.00004	.03529	-.00031	-.00262	-.00008	.00004	.00005	-1.15408	-.05197	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (SPN036) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0826 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 37/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
2.900	-.216	.00140	-.01996	.08722	-.00819	-.00018	.00035	-.00113	105.86669	129.66486	53.51070
2.900	4.070	.00255	.19861	.08419	-.02567	.00010	.00019	-.00146	101.10705	111.57825	56.36648
2.900	8.460	.00360	.23795	.08107	-.04285	.00022	.00025	-.00212	85.87622	95.39549	48.75107
2.900	12.685	.00431	.36432	.07751	-.05692	.00034	.00032	-.00245	60.17419	82.06851	45.99143
2.900	16.962	.00346	.50201	.07429	-.07159	.00027	.00027	-.00195	44.94336	67.78961	35.42409
2.900	21.308	.00361	.64999	.07081	-.08611	.00028	.00039	-.00213	30.66445	53.51070	35.42409
	GRADIENT	.00027	.03000	-.00071	-.00408	.00007	-.00004	-.00008	-1.11051	-4.21993	.66630

RUN NO. 39/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.182	.00031	-.02428	.08012	-.01173	.00026	.00021	-.00045	71.59752	83.97237	27.80867
2.950	4.068	.00157	.20384	.07701	-.02458	.00028	.00034	-.00129	72.54924	72.54924	28.76060
2.950	8.363	.00131	.20446	.07459	-.03550	.00022	.00037	-.00119	55.41456	59.22226	25.90482
2.950	12.671	.00206	.32324	.07138	-.04649	.00040	.00022	-.00137	36.37602	48.75107	24.00096
2.950	16.789	.00257	.45020	.06893	-.06020	.00041	.00025	-.00165	26.85675	41.13565	19.24133
2.950	21.026	.00295	.59210	.06608	-.07290	.00054	.00040	-.00200	20.19326	32.56831	19.24133
	GRADIENT	.00030	.02546	-.00073	-.00303	.00000	.00003	-.00020	.22414	-2.68969	.22414

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM037) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 151.000
RN/L = 3.000

RUN NO. 40/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.234	-.00029	-.03006	.07732	-.00860	.00013	.00017	-.00008	72.54924	84.92429	32.56831
2.950	4.046	.00118	.07963	.07458	-.02128	.00003	.00026	-.00097	74.45310	72.54924	32.56831
2.950	8.207	.00012	.19590	.07269	-.03237	.00001	.00030	-.00046	56.36648	59.22226	28.76060
2.950	12.465	.00145	.31293	.06875	-.04301	.00015	.00018	-.00100	36.37602	48.75107	26.85675
2.950	16.770	.00164	.44743	.06628	-.05669	.00009	.00014	-.00099	25.90482	41.13565	23.04904
2.950	21.034	.00095	.58654	.06342	-.06840	-.00016	.00022	-.00069	21.14518	33.52024	23.04904
	GRADIENT	.00034	.02563	-.00064	-.00296	-.00002	.00002	-.00021	.44483	-2.89137	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM038) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 185.000
RN/L = 3.000

RUN NO. 38/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.900	-.174	.00078	-.02388	.08457	-.00565	-.00019	.00032	-.00079	104.91476	129.66486	57.31841
2.900	4.069	.00225	.10226	.08174	-.02266	-.00013	.00007	-.00115	102.05898	111.57825	55.41456
2.900	8.332	.00291	.23016	.07953	-.03963	-.00001	.00009	-.00149	87.78007	96.34742	48.75107
2.900	12.641	.00289	.35751	.07515	-.05301	.00004	.00013	-.00152	60.17419	83.02044	45.85079
2.900	16.985	.00307	.49577	.07143	-.06773	-.00006	.00020	-.00166	44.94336	67.78961	43.03951
2.900	21.268	.00273	.64131	.06781	-.08095	-.00044	.00030	-.00159	33.52024	60.17419	43.03951
	GRADIENT	.00035	.02973	-.00067	-.00401	.00001	-.00006	-.00008	-.67306	-4.26269	-.44870

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM039) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

ALPHA = 27.500
RN/L = 1.000

RUN NO. 830/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	PO-JET	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	-.547	-.00267	.79566	.05874	-.06990	.00035	.00087	.00517	5.91435	5.91435	4.01050
4.000	-.092	-.00210	.79633	.05836	-.06996	.00039	.00101	.00377	4.01050	4.01050	4.01050
4.000	38.131	-.00279	.79083	.05585	-.06688	-.00013	.00109	.00513	4.96243	4.96243	4.01050
4.000	198.760	-.00240	.78026	.04892	-.05705	-.00376	.00511	-.00106	4.96243	4.96243	4.01050
4.000	327.310	-.00276	.76885	.04340	-.04895	-.00471	.00575	-.00115	4.01050	4.96243	4.01050
4.000	601.246	-.00320	.75179	.03212	-.03565	-.00523	.00539	.00026	4.01050	4.01050	4.01050
	GRADIENT	.00125	.00147	-.00084	-.00013	.00009	.00031	-.00308	-4.18429	-4.18429	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM040) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 1.000

RUN NO. 26/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.447	-.00120	.24425	.06302	-.02994	.00042	.00016	.00242	8.77013	7.81821	4.96243
4.000	16.485	-.00079	.36149	.06228	-.03703	.00044	.00029	.00150	7.81821	6.86628	4.96243
4.000	20.642	-.00089	.50129	.06172	-.04491	.00067	.00033	.00186	6.86628	6.86628	4.96243
4.000	25.646	-.00096	.67606	.05904	-.05867	.00044	.00058	.00186	5.91435	6.86628	4.96243
4.000	30.766	-.00059	.87508	.05698	-.08077	.00091	.00015	.00180	5.91435	6.86628	4.01050
4.000	35.892	-.00012	1.08561	.05304	-.10478	.00096	.00071	.00019	5.91435	5.91435	4.01050
	GRADIENT	.00004	.03598	-.00042	-.00318	.00002	.00002	-.00006	-.12418	-.05717	-.04722

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM041) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -2.500 PO-JET = .000
RN/L = 1.000

RUN NO. 34/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.434	-2.51257	.25533	.06127	-.03004	.00187	.00200	.02837	8.77013	7.81821	4.01050
4.000	16.513	-2.51333	.37803	.06077	-.03815	.00258	.00281	.02902	7.81821	7.81821	4.01050
4.000	20.576	-2.51316	.51758	.06026	-.04788	.00310	.00340	.02805	6.86628	6.86628	4.01050
4.000	25.713	-2.51365	.70377	.05840	-.06214	.00335	.00428	.02810	5.91435	6.86628	4.01050
4.000	30.775	-2.51315	.89068	.05683	-.07982	.00525	.00337	.02841	5.91435	6.86628	4.01050
4.000	35.928	-2.51181	1.10695	.05218	-.10295	.00562	.00463	.02402	6.86628	5.91435	4.01050
	GRADIENT	.00003	.03626	-.00036	-.00307	.00016	.00009	-.00015	-.09414	-.07441	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM042) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -5.000 PO-JET = .000
RN/L = 1.000

RUN NO. 31/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.474	-5.04082	.26044	.06254	-.03108	.00353	.00348	.05583	10.67399	9.72206	4.01050
4.000	16.543	-5.04132	.37733	.06158	-.03805	.00452	.00484	.05521	10.67399	8.77013	4.01050
4.000	20.673	-5.04205	.52259	.06115	-.04882	.00572	.00570	.05579	8.77013	8.77013	4.01050
4.000	25.667	-5.04107	.69724	.05923	-.06078	.00704	.00717	.05194	7.81821	7.81821	4.01050
4.000	30.753	-5.04042	.88971	.05803	-.07953	.00923	.00705	.05087	6.86628	7.81821	4.01050
4.000	35.916	-5.03925	1.10612	.05389	-.10268	.01009	.00849	.04659	6.86628	8.77013	4.01050
	GRADIENT	.00007	.03613	-.00034	-.00302	.00029	.00020	-.00039	-.18904	-.04958	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM043) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 21/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.676	-.00069	.25618	.06063	-.03331	.00040	.00040	-.00002	21.14518	20.19326	7.81821
4.000	16.865	-.00083	.37388	.05956	-.04145	.00056	.00047	.00003	17.33748	16.38555	7.81821
4.000	21.079	-.00062	.50918	.05896	-.04921	.00057	.00050	-.00008	14.48170	14.48170	7.81821
4.000	26.380	-.00001	.69695	.05837	-.06299	.00051	.00061	-.00061	11.62591	14.48170	7.81821
4.000	31.711	-.00069	.90408	.05605	-.08436	.00104	.00036	.00026	11.62591	14.48170	7.81821
4.000	37.049	.00109	1.12400	.05300	-.10886	.00093	.00072	-.00143	11.62591	11.62591	7.81821
	GRADIENT	.00006	.03575	-.00029	-.00306	.00002	.00001	-.00004	-.38384	-.27670	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM044) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 5.000

RUN NO. 24/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.962	-.00325	.26458	.06022	-.03322	.00041	.00040	.00087	29.71253	32.56831	12.57784
4.000	17.299	-.00313	.38722	.05906	-.04095	.00051	.00044	.00078	23.04904	25.90482	11.62591
4.000	21.633	-.00256	.52571	.05827	-.04901	.00047	.00047	.00055	22.09711	21.14518	11.62591
4.000	27.151	-.00187	.71905	.05708	-.06445	.00058	.00053	.00022	15.43362	19.24133	11.62591
	GRADIENT	.00010	.03211	-.00022	-.00219	.00001	.00001	-.00005	-.93624	-.93707	-.05862

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM045) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 37.000
RN/L = 1.000

RUN NO. 27/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.433	-.00048	.23260	.05972	-.02571	-.00003	.00009	.00098	6.86628	7.81821	4.01050
4.000	16.513	-.00062	.35546	.05921	-.03389	-.00004	.00009	.00142	6.86628	6.86628	4.01050
4.000	20.577	-.00073	.49515	.05929	-.04369	.00019	.00013	.00178	5.91435	7.81821	4.01050
4.000	25.631	-.00092	.67508	.05659	-.05876	-.00004	.00060	.00176	5.91435	6.86628	4.96243
4.000	30.775	-.00071	.86857	.05462	-.07763	.00044	.00036	.00175	5.91435	5.91435	4.01050
4.000	35.913	.00024	1.07893	.05058	-.10164	.00005	.00129	-.00135	4.96243	5.91435	4.96243
	GRADIENT	.00002	.03605	-.00038	-.00320	.00001	.00004	-.00007	-.07439	-.08176	.03495

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM046) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 99.000
RN/L = 1.000

RUN NO. 35/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.416	-.00253	.25048	.05594	-.02317	-.00037	.00032	.00503	7.81821	7.81821	4.01050
4.000	16.522	-.00293	.36767	.05523	-.03029	-.00086	.00074	.00543	6.86628	7.81821	4.01050
4.000	20.617	-.00285	.50735	.05448	-.04005	-.00082	.00156	.00438	5.91435	6.86628	4.01050
4.000	25.698	-.00282	.68809	.05242	-.05331	-.00173	.00281	.00282	4.96243	4.96243	4.01050
4.000	30.777	-.00245	.88707	.05124	-.07335	-.00125	.00238	.00276	4.96243	4.96243	4.01050
4.000	35.914	-.00183	1.09754	.04723	-.09737	-.00144	.00274	.00110	4.01050	4.96243	4.01050
	GRADIENT	.00003	.03624	-.00035	-.00313	-.00004	.00011	-.00018	-.15385	-.14879	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM047) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 103.000
RN/L = 3.000

RUN NO. 22/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	FB1	FB2	FB3
4.000	12.674	-.00150	.25285	.05850	-.03066	.00006	.00017	.00086	18.28940	19.24133	9.72206
4.000	16.908	-.00099	.37219	.05724	-.03787	-.00001	.00030	.00038	16.38555	16.38555	8.77013
4.000	21.069	-.00154	.50633	.05685	-.04596	.00006	.00034	.00077	12.57784	14.48170	9.72206
4.000	26.454	-.00135	.69426	.05605	-.06038	.00000	.00067	.00026	13.52977	14.48170	8.77013
4.000	31.720	-.00015	.90037	.05416	-.08168	.00050	.00049	-.00029	11.62591	11.62591	8.77013
4.000	37.130	.00155	1.12218	.05113	-.10656	.00024	.00126	-.00247	11.62591	11.62591	8.77013
	GRADIENT	.00011	.03568	-.00028	-.00308	.00001	.00004	-.00011	-.26380	-.29976	-.03343

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM048) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 178.000
RN/L = 5.000

RUN NO. 25/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	FB1	FB2	FB3
4.000	12.928	-.00410	.25886	.05793	-.03013	.00016	.00026	.00142	28.76060	32.56831	15.43362
4.000	17.287	-.00317	.38276	.05676	-.03734	.00007	.00030	.00100	22.09711	26.85675	14.48170
4.000	21.649	-.00287	.52072	.05597	-.04574	-.00002	.00041	.00077	20.19326	22.09711	14.48170
4.000	27.154	-.00145	.71339	.05484	-.06139	.00001	.00065	-.00013	21.14518	25.90482	14.48170
	GRADIENT	.00018	.03200	-.00021	-.00219	-.00001	.00003	-.00011	-.50559	-.49579	-.05852

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM049) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 199.000
RN/L = 1.000

RUN NO. 28/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.421	-.00119	.22128	.05180	-.01945	-.00168	.00138	.00076	6.86628	7.81821	4.01050
4.000	16.539	-.00085	.33838	.05105	-.02465	-.00208	.00272	-.00161	6.86628	6.86628	4.01050
4.000	20.562	-.00040	.47833	.05079	-.03452	-.00295	.00412	-.00425	5.91435	5.91435	4.01050
4.000	25.663	-.00012	.65883	.04915	-.04776	-.00362	.00495	-.00577	4.96243	4.96243	4.01050
4.000	30.608	-.00065	.85720	.04758	-.06770	-.00232	.00302	-.00147	4.96243	4.96243	4.01050
4.000	35.958	-.00050	1.06711	.04411	-.09162	-.00137	.00258	-.00150	4.01050	4.96243	4.01050
	GRADIENT	.00002	.03613	-.00031	-.00307	.00001	.00004	-.00006	-.12623	-.12366	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM050) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 328.000
RN/L = 1.000

RUN NO. 29/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.394	-.00046	.21624	.04518	-.01064	-.00412	.00473	-.00525	6.86628	7.81821	4.01050
4.000	16.500	-.00025	.33389	.04396	-.01775	-.00476	.00629	-.00767	6.86628	6.86628	4.96243
4.000	20.540	-.00105	.46795	.04476	-.02655	-.00505	.00641	-.00594	4.96243	5.91435	4.01050
4.000	25.676	-.00063	.65445	.04406	-.03904	-.00548	.00703	-.00746	4.96243	4.96243	4.01050
4.000	30.784	-.00182	.84699	.04164	-.05966	-.00308	.00352	-.00011	4.01050	4.96243	4.01050
4.000	35.889	-.00086	1.05762	.03795	-.08173	-.00232	.00322	-.00160	4.01050	4.96243	4.01050
	GRADIENT	-.00004	.03596	-.00027	-.00301	.00009	-.00010	.00025	-.13625	-.12391	-.01730

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM051) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -2.500 PO-JET = 328.000
RN/L = 1.000

RUN NO. 33/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.469	-2.51273	.23333	.04571	-.01192	-.00227	.00587	.02354	8.77013	9.72206	4.01050
4.000	16.559	-2.51271	.35037	.04460	-.01707	-.00219	.00761	.02130	9.72206	9.72206	4.01050
4.000	20.657	-2.51281	.49029	.04380	-.02501	-.00305	.00985	.01871	8.77013	8.77013	4.01050
4.000	25.696	-2.51281	.67060	.04323	-.04010	-.00234	.00987	.01887	6.86628	6.86628	4.01050
4.000	30.793	-2.51260	.86309	.04151	-.05879	.00066	.00718	.02214	4.96243	4.96243	4.01050
4.000	35.875	-2.51182	1.07353	.03851	-.08273	.00190	.00709	.02076	4.01050	4.96243	4.01050
	GRADIENT	.00003	.03602	-.00028	-.00303	.00019	.00002	-.00006	-.24631	-.24388	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPM052) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -5.000 PO-JET = 328.000
RN/L = 1.000

RUN NO. 32/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.478	-5.03977	.23273	.04603	-.01185	-.00121	.00862	.04671	10.67399	10.67399	4.01050
4.000	16.691	-5.04009	.35528	.04519	-.01803	-.00045	.00979	.04597	10.67399	10.67399	4.01050
4.000	20.732	-5.03972	.49494	.04539	-.02780	-.00008	.01214	.04224	10.67399	9.72206	4.01050
4.000	25.747	-5.03941	.68343	.04340	-.03865	.00163	.01247	.04132	7.81821	6.86628	4.01050
4.000	30.768	-5.03910	.85618	.04269	-.05740	.00425	.01176	.04176	6.86628	5.91435	4.01050
4.000	35.697	-5.03806	1.07212	.03939	-.08239	.00596	.01123	.04040	5.91435	4.96243	4.01050
	GRADIENT	.00007	.03580	-.00026	-.00296	.00032	.00011	-.00027	-.23423	-.27920	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPH053) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 559.000
RN/L = 3.000

RUN NO. 29/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.655	-.00310	.24534	.05123	-.02323	-.00108	.00045	.00162	18.28940	20.19326	9.72206
4.000	16.879	-.00257	.36574	.05024	-.02995	-.00205	.00172	-.00041	17.33748	19.24133	9.72206
4.000	21.079	-.00245	.49757	.04848	-.03637	-.00308	.00363	-.00296	15.43362	14.48170	10.67399
4.000	26.403	-.00219	.68772	.04835	-.05126	-.00391	.00470	-.00453	11.62591	12.57784	10.67399
4.000	31.733	-.00268	.89167	.04695	-.07154	-.00285	.00357	-.00261	10.67399	11.62591	10.67399
4.000	37.047	-.00200	1.10949	.04456	-.09566	-.00237	.00335	-.00275	10.67399	11.62591	9.72206
	GRADIENT	.00003	.03555	-.00025	-.00295	-.00005	.00012	-.00017	-.35785	-.38625	.01421

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (RPH054) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 600.000
RN/L = 1.000

RUN NO. 30/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.469	-.00022	.20026	.03380	.00426	-.00860	.01114	-.01433	6.86628	7.81821	4.01050
4.000	16.541	-.00008	.32315	.03395	-.00396	-.00857	.01170	-.01525	6.86628	6.86628	4.01050
4.000	20.607	-.00124	.46285	.03409	-.01188	-.00823	.01026	-.01066	4.96243	4.96243	4.01050
4.000	25.694	-.00209	.65475	.03445	-.02726	-.00650	.00739	-.00484	4.01050	4.96243	4.01050
4.000	30.917	-.00249	.85295	.03184	-.04711	-.00449	.00481	-.00040	4.01050	4.96243	4.01050
4.000	35.896	-.00179	1.05815	.02895	-.07004	-.00421	.00494	-.00193	4.01050	4.96243	4.01050
	GRADIENT	-.00009	.03680	-.00019	-.00315	.00022	-.00033	.00068	-.14136	-.11651	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (RPM055) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 41/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.900	-.195	.00122	-.01901	.08734	-.00880	-.00007	.00039	-.00105	105.38210	129.18028	53.97804
2.900	4.055	.00341	.10637	.08403	-.02567	-.00001	.00010	-.00154	101.57439	110.14174	56.83383
2.900	8.440	.00448	.23675	.08102	-.04220	.00028	.00024	-.00232	85.39164	93.00705	52.07419
2.900	12.665	.00459	.36271	.07749	-.05621	.00029	.00029	-.00267	58.73768	79.68007	45.41070
2.900	16.992	.00404	.50134	.07443	-.07163	.00029	.00035	-.00246	43.50685	65.40117	37.79529
2.900	21.468	.00528	.65425	.07089	-.08642	.00025	.00055	-.00316	31.13180	52.07419	36.84336
	GRADIENT	.00052	.02950	-.00078	-.00397	.00001	-.00007	-.00012	-.89593	-4.47966	.67195

RUN NO. 43/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.214	.00021	-.02015	.07982	-.01202	.00026	.00026	-.00040	72.06466	83.48778	28.27602
2.950	4.006	.00175	.06720	.07705	-.02474	.00027	.00026	-.00104	72.06466	71.11273	29.22794
2.950	8.273	.00186	.20482	.07472	-.03556	.00028	.00041	-.00140	53.97804	57.78575	26.37216
2.950	12.509	.00193	.32320	.07180	-.04651	.00041	.00034	-.00160	35.89143	48.26648	23.51638
2.950	16.742	.00093	.45553	.06948	-.06043	.00039	.00021	-.00087	23.51638	38.74721	18.75675
2.950	21.032	.00144	.59804	.06652	-.07348	.00057	.00027	-.00105	18.75675	31.13180	19.70867
	GRADIENT	.00036	.02544	-.00066	-.00301	.00000	.00000	-.00015	.00000	-2.93248	.22557

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (RPM036) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 131.000
RN/L = 3.000

RUN NO. 44/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.283	-.00078	-.02444	.07777	-.00968	.00005	.00014	.00029	71.11273	84.43971	30.17987
2.950	4.190	.00058	.09030	.07475	-.02233	.00007	.00025	-.00039	72.06466	70.16080	31.13180
2.950	8.265	.00078	.20189	.07273	-.03205	.00002	.00034	-.00073	55.88190	57.78575	29.22794
2.950	12.478	.00196	.31888	.06933	-.04319	.00017	.00034	-.00162	35.89143	47.31456	26.37216
2.950	16.896	.00215	.45464	.06692	-.05677	.00017	.00028	-.00162	24.46831	39.69914	25.51638
2.950	21.068	.00088	.59126	.06412	-.06875	-.00016	.00030	-.00079	20.66060	33.98758	25.51638
	GRADIENT	.00031	.02577	-.00068	-.00284	.00000	.00002	-.00015	.21377	-3.20658	.21377

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (RPM037) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 198.000
RN/L = 3.000

RUN NO. 42/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
2.900	-.185	.00222	-.02151	.08507	-.00567	-.00017	.00028	-.00138	104.43018	128.22835	56.83383
2.900	4.070	.00350	.10657	.08192	-.02305	-.00022	.00011	-.00159	101.57439	109.18981	56.83383
2.900	8.357	.00454	.23290	.07940	-.03926	.00001	.00024	-.00235	88.24742	93.00705	50.17034
2.900	12.636	.00412	.36055	.07546	-.05315	-.00004	.00026	-.00241	59.68961	79.68007	46.36263
2.900	16.977	.00393	.50053	.07214	-.06839	-.00026	.00024	-.00226	43.50685	65.40117	42.55492
2.900	21.291	.00267	.64462	.6837	-.08116	-.00043	.00036	-.00167	32.08372	59.68961	42.55492
	GRADIENT	.00030	.03010	-.00074	-.00408	-.00001	-.00004	-.00005	-.67116	-4.47439	-.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (RPM058) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 1.000

RUN NO. 48/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.408	-.00065	.23884	.06145	-.03073	.00048	.00053	.00033	5.42977	7.33362	3.52591
4.000	16.515	-.00022	.36014	.06048	-.03712	.00052	.00069	-.00095	5.42977	6.38170	2.57399
4.000	20.536	-.00032	.49695	.06054	-.04727	.00073	.00057	.00008	4.47784	6.38170	2.57399
4.000	25.713	-.00037	.67800	.05895	-.06072	.00049	.00078	-.00007	4.47784	6.38170	2.57399
4.000	30.768	-.00014	.87645	.05796	-.08260	.00100	.00066	-.00118	4.47784	6.38170	2.57399
4.000	35.930	-.00010	1.08859	.05451	-.10472	.00104	.00098	-.00248	3.52591	5.42977	3.52591
	GRADIENT	.00002	.03620	-.00027	-.00317	.00002	.00001	-.00009	-.07430	-.05702	.00253

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (RPM059) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 45/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.672	-.00043	.25423	.06040	-.03358	.00041	.00054	-.00029	17.80482	18.75675	7.33362
4.000	16.915	-.00008	.37392	.05961	-.04160	.00043	.00054	-.00080	14.94904	15.90096	7.33362
4.000	21.073	.00007	.90362	.05896	-.04930	.00051	.00050	-.00064	13.04518	13.99711	7.33362
4.000	26.521	.00084	.69486	.05827	-.06386	.00053	.00054	-.00130	9.23748	13.99711	7.33362
4.000	31.713	.00083	.89538	.05642	-.08401	.00100	.00030	-.00124	9.23748	13.99711	7.33362
4.000	37.108	.00233	1.11540	.05350	-.10847	.00091	.00084	-.00330	11.14133	11.14133	7.33362
	GRADIENT	.00010	.03536	-.00026	-.00303	.00002	.00001	-.00010	-.30743	-.25021	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (RPH060) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0620 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 37.000
RN/L = 1.000

RUN NO. 49/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.385	.00008	.25264	.05979	-.02763	.00004	.00046	-.00115	5.42977	7.33362	2.57399
4.000	16.472	-.00079	.35404	.05900	-.03594	.00024	.00055	.00044	5.42977	7.33362	3.52591
4.000	20.536	-.00018	.49101	.05943	-.04425	.00049	.00036	.00005	4.47784	7.33362	2.57399
4.000	25.789	-.00021	.67536	.05800	-.05675	.00025	.00057	-.00015	4.47784	6.38170	3.52591
4.000	30.786	-.00001	.86575	.05625	-.07853	.00078	.00044	-.00117	4.47784	5.42977	2.57399
4.000	36.043	.00051	1.08948	.05210	-.10474	.00061	.00113	-.00402	2.57399	5.42977	3.52591
	GRADIENT	.00003	.03617	-.00030	-.00320	.00002	.00002	-.00012	-.10362	-.09852	.01747

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (RPH061) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0620 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 100.000
RN/L = 1.000

RUN NO. 53/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.405	-.00180	.25648	.05693	-.02433	-.00031	.00049	.00280	5.42977	7.33362	2.57399
4.000	16.475	-.00153	.37225	.05688	-.03162	-.00027	.00085	.00161	5.42977	7.33362	2.57399
4.000	20.609	-.00189	.50868	.05612	-.04175	-.00030	.00116	.00263	4.47784	5.42977	2.57399
4.000	25.654	-.00208	.68207	.05480	-.05600	-.00077	.00158	.00249	4.47784	5.42977	3.52591
4.000	30.764	-.00171	.86270	.05352	-.07600	-.00026	.00125	.00135	2.57399	5.42977	2.57399
4.000	35.914	-.00167	1.09454	.04958	-.09806	-.00022	.00157	.00006	2.57399	4.47784	2.57399
	GRADIENT	.00000	.03583	-.00030	-.00315	.00000	.00004	-.00009	-.13921	-.11934	.00489

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (RPM062) (16 JAN 74)

REFERENCE DATA

SREF = .7845 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 103.000
RN/L = 3.000

RUN NO. 46/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.671	-.00040	.25048	.05837	-.03024	.00017	.00035	-.00032	16.85289	18.75675	7.33362
4.000	16.982	-.00046	.36771	.05742	-.03784	.00002	.00042	-.00039	14.94904	15.90096	8.28555
4.000	21.082	-.00027	.49994	.05690	-.04598	.00001	.00039	-.00025	12.09326	13.99711	8.28555
4.000	26.412	.00002	.68539	.05627	-.06007	.00003	.00064	-.00085	12.09326	13.99711	7.33362
4.000	31.717	.00062	.88776	.05436	-.08060	.00044	.00045	-.00129	11.14133	11.14133	8.28555
4.000	37.043	.00140	1.10783	.05177	-.10570	.00033	.00101	-.00287	10.18940	11.14133	8.28555
	GRADIENT	.00007	.03525	-.00025	-.00305	.00001	.00002	-.00010	-.25523	-.30059	.02142

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (RPM063) (16 JAN 74)

REFERENCE DATA

SREF = .7845 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 199.000
RN/L = 1.000

RUN NO. 90/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.398	-.00112	.22767	.05252	-.01871	-.00099	.00041	.00148	5.42977	7.33362	2.57399
4.000	16.670	-.00086	.34301	.05151	-.02594	-.00119	.00099	.00025	5.42977	7.33362	3.52591
4.000	20.542	-.00075	.47453	.05152	-.03505	-.00142	.00145	-.00019	4.47784	5.42977	3.52591
4.000	25.755	-.00090	.65954	.05143	-.04781	-.00188	.00187	-.00043	4.47784	5.42977	2.57399
4.000	30.752	-.00090	.85461	.04974	-.06856	-.00095	.00097	-.00001	2.57399	5.42977	2.57399
4.000	35.750	-.00091	1.05540	.04630	-.09054	-.00067	.00127	-.00113	2.57399	5.42977	2.57399
	GRADIENT	.00001	.03578	-.00025	-.00306	.00001	.00003	-.00008	-.13965	-.08985	-.02484

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (RPM064) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 328.000
RN/L = 1.000

RUN NO. 51/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.384	-.00177	.21631	.04755	-.01087	-.00199	.00049	.00277	5.42977	8.28555	2.57399
4.000	16.512	-.00061	.33772	.04705	-.01899	-.00196	.00157	-.00128	5.42977	7.33362	2.57399
4.000	20.659	-.00095	.47442	.04562	-.02910	-.00213	.00188	-.00031	4.47784	6.38170	2.57399
4.000	25.667	-.00112	.65407	.04580	-.04267	-.00250	.00230	-.00051	3.52591	5.42977	2.57399
4.000	30.775	-.00212	.84844	.04341	-.06148	-.00174	.00091	.00269	2.57399	4.47784	2.57399
4.000	35.947	-.00154	1.06056	.04158	-.08556	-.00142	.00136	.00004	2.57399	4.47784	3.52591
	GRADIENT	-.00002	.03592	-.00025	-.00313	.00002	.00001	-.00001	-.14355	-.17086	.02978

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (RPM065) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 559.000
RN/L = 3.000

RUN NO. 47/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.649	-.00136	.24121	.05171	-.02248	-.00081	.00027	.00047	10.85289	18.75675	8.28555
4.000	16.900	-.00263	.35851	.05081	-.02949	-.00131	.00053	.00128	11.90096	18.75675	8.28555
4.000	21.046	-.00169	.48703	.04951	-.03627	-.00189	.00134	-.00052	13.99711	14.94904	9.23748
4.000	26.409	-.00172	.67451	.04935	-.05078	-.00227	.00181	-.00118	10.18940	10.18940	9.23748
4.000	31.714	-.00242	.87675	.04766	-.07128	-.00142	.00119	-.00013	8.28555	10.18940	9.23748
4.000	37.078	-.00248	1.09869	.04540	-.09611	-.00118	.00111	-.00026	9.23748	11.14133	8.28555
	GRADIENT	-.00003	.03520	-.00024	-.00299	-.00001	.00004	-.00005	-.37416	-.39295	.01409

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (RPND66) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 600.000
RN/L = 1.000

RUN NO. 52/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.495	-.00250	.20535	.03734	.00329	-.00341	.00178	.00258	5.42977	7.33362	2.57399
4.000	16.513	-.00248	.32672	.03582	-.00498	-.00336	.00257	.00135	5.42977	6.38170	2.57399
4.000	20.524	-.00255	.45783	.03540	-.01408	-.00387	.00246	.00226	3.52591	5.42977	2.57399
4.000	25.682	-.00314	.64895	.03508	-.02981	-.00414	.00254	.00345	2.57399	5.42977	2.57399
4.000	30.768	-.00315	.84311	.03455	-.04866	-.00296	.00163	.00391	2.57399	4.47784	2.57399
4.000	35.909	-.00250	1.06125	.03182	-.07193	-.00312	.00210	.00112	2.57399	4.47784	2.57399
	GRADIENT	-.00002	.03650	-.00019	-.00318	.00002	-.00001	.00001	-.14114	-.11889	-.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (RPH067) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9310 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 63/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.900	-.087	.00111	-.01352	.08676	-.00969	.00003	.00023	-.00083	103.55715	129.25918	51.20117
2.900	4.293	.00280	.11803	.08380	-.02747	.00015	.00015	-.00152	95.94174	110.22064	54.05695
2.900	8.565	.00313	.24460	.08095	-.04323	.00037	.00027	-.00171	80.71091	94.98981	49.29732
2.900	12.716	.00393	.36973	.07754	-.05750	.00038	.00026	-.00190	56.91273	81.66283	41.68190
2.900	17.013	.00317	.50754	.07438	-.07232	.00053	.00037	-.00172	41.68190	67.38393	35.97034
2.900	21.258	.00361	.65409	.07102	-.08637	.00050	.00061	-.00237	30.25877	54.05695	35.01841
	GRADIENT	.00039	.03003	-.00068	-.00406	.00003	-.00002	-.00016	-1.73868	-4.34670	.65200

RUN NO. 65/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.213	-.00106	-.01988	.07979	-.01292	.00024	.00025	.00023	71.19164	84.51861	27.40299
2.950	4.097	.00038	.09132	.07695	-.02511	.00026	.00033	-.00064	70.23971	71.19164	28.35492
2.950	8.228	.00111	.20455	.07459	-.03551	.00039	.00043	-.00103	52.15310	58.81658	25.49914
2.950	12.572	.00190	.32622	.07162	-.04705	.00058	.00028	-.00106	36.92226	49.29732	21.69143
2.950	16.762	.00217	.45660	.06929	-.06057	.00059	.00042	-.00141	27.40299	41.68190	18.83565
2.950	21.018	.00303	.59787	.06632	-.07389	.00074	.00058	-.00264	19.78758	33.11456	17.88372
	GRADIENT	.00033	.02580	-.00066	-.00283	.00000	.00002	-.00020	-.22087	-3.09210	.22087

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (RPM068) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 151.000
RN/L = 3.000

RUN NO. 66/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.208	-.00036	-.02136	.07925	-.01261	.00025	.00023	-.00011	70.23971	84.51861	27.40299
2.950	4.052	.00050	.08987	.07692	-.02532	.00026	.00028	-.00063	70.23971	71.19164	27.40299
2.950	8.219	.00127	.20460	.07461	-.03552	.00033	.00038	-.00105	51.20117	58.81658	22.64336
2.950	12.471	.00303	.32349	.07142	-.04652	.00054	.00035	-.00176	35.01841	48.34539	21.69143
2.950	16.752	.00215	.45630	.06884	-.06051	.00059	.00032	-.00141	24.54721	33.77804	17.88372
2.950	21.073	.00342	.59969	.06598	-.07372	.00073	.00050	-.00230	17.88372	31.21070	19.78758
	GRADIENT	.00020	.02611	-.00054	-.00298	.00000	.00001	-.00012	-.00000	-3.12840	-.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (RPM069) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 185.000
RN/L = 3.000

RUN NO. 64/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.900	-.183	.00100	-.01480	.08636	-.00944	-.00008	.00028	-.00084	102.60523	129.25918	52.15310
2.900	4.097	.00272	.11394	.08392	-.02672	.00020	.00014	-.00148	95.94174	111.17257	53.10502
2.900	8.356	.00392	.23915	.08121	-.04266	.00032	.00020	-.00201	81.66283	94.98981	46.44153
2.900	12.656	.00447	.36812	.07733	-.05720	.00044	.00028	-.00219	56.91273	81.66283	41.68190
2.900	17.082	.00324	.51132	.07400	-.07260	.00048	.00038	-.00177	42.63383	66.43200	36.92226
2.900	21.380	.00325	.65798	.07070	-.08667	.00044	.00054	-.00210	30.25877	53.10502	36.92226
	GRADIENT	.00040	.03008	-.00057	-.00404	.00007	-.00003	-.00015	-1.55689	-4.22584	.22241

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (RPM070) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.3510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 1.000

RUN NO. 57/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.432	-.00173	.25046	.06319	-.02924	.00011	.00008	.00480	8.36445	8.36445	2.65289
4.000	16.511	-.00132	.37358	.06236	-.03783	.00038	.00021	.00388	7.41253	7.41253	2.65289
4.000	20.595	-.00143	.51268	.06260	-.04848	.00063	.00022	.00359	6.46060	7.41253	2.65289
4.000	25.662	-.00152	.68731	.05986	-.06069	.00064	.00044	.00323	5.50867	7.41253	2.65289
4.000	30.706	-.00129	.88704	.05796	-.08185	.00112	.00022	.00317	5.50867	6.46060	2.65289
4.000	35.922	-.00066	1.09723	.05422	-.10318	.00093	.00058	.00150	4.55675	5.50867	2.65289
	GRADIENT	.00003	.03612	-.00037	-.00313	.00004	.00002	-.00012	-.15403	-.10442	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (RPM071) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 54/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.689	-.00197	.25837	.06069	-.03308	.00045	.00040	.00130	17.88372	19.78758	7.41253
4.000	16.916	-.00150	.38009	.05963	-.04087	.00063	.00051	.00081	15.97987	15.97987	7.41253
4.000	21.094	-.00190	.51144	.05904	-.04882	.00062	.00048	.00097	14.07602	15.02794	7.41253
4.000	26.440	-.00131	.70111	.05847	-.06358	.00072	.00059	.00035	10.26831	14.07602	7.41253
4.000	31.727	-.00070	.90513	.05645	-.08359	.00120	.00036	.00027	11.22024	14.07602	7.41253
4.000	37.042	.00020	1.12488	.05335	-.10842	.00116	.00081	-.00092	12.17216	11.22024	7.41253
	GRADIENT	.00008	.03566	-.00028	-.00306	.00003	.00001	-.00008	-.26519	-.28436	.00001

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (RPM072) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 37.000
RN/L = 1.000

RUN NO. 58/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.399	-.00177	.24455	.06171	-.02994	.00035	.00007	.00490	7.41253	7.41253	1.70096
4.000	16.499	-.00134	.36761	.06130	-.03666	.00038	.00020	.00393	7.41253	7.41253	2.65289
4.000	20.582	-.00145	.50719	.06157	-.04733	.00062	.00021	.00364	4.55675	7.41253	2.65289
4.000	25.730	-.00150	.69332	.06000	-.06183	.00064	.00045	.00318	5.50867	7.41253	2.65289
4.000	30.832	-.00067	.89232	.05771	-.08103	.00092	.00037	.00167	5.50867	6.46060	2.65289
4.000	35.887	-.00091	1.09738	.05383	-.10508	.00069	.00101	.00147	4.55675	6.46060	1.70096
	GRADIENT	.00004	.03547	-.00032	-.00318	.00002	.00003	-.00015	-.11144	-.04704	-.00237

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (RPM073) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 100.000
RN/L = 1.000

RUN NO. 59/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.409	-.00177	.24452	.06163	-.02993	.00035	.00007	.00491	7.41253	7.41253	1.70096
4.000	16.499	-.00134	.36748	.06127	-.03665	.00038	.00020	.00393	6.46060	7.41253	1.70096
4.000	20.582	-.00157	.50682	.06094	-.04729	.00039	.00043	.00360	5.50867	7.41253	1.70096
4.000	25.673	-.00043	.68746	.05975	-.06073	.00005	.00193	-.00108	5.50867	7.41253	2.65289
4.000	30.761	-.00061	.88673	.05752	-.08186	.00025	.00136	.00021	5.50867	6.46060	1.70096
4.000	35.911	-.00028	1.09750	.05424	-.10324	.00050	.00214	-.00139	5.50867	6.46060	1.70096
	GRADIENT	.00007	.03639	-.00030	-.00314	-.00001	.00009	-.00029	-.07190	-.04711	.00494

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (RPM074) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 103.000
RN/L = 3.000

RUN NO. 55/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.682	-.00182	.26034	.06071	-.03345	.00045	.00033	.00128	17.88372	19.78758	7.41253
4.000	16.898	-.00192	.36014	.05951	-.04087	.00053	.00040	.00126	16.93180	16.93180	7.41253
4.000	21.077	-.00131	.51341	.05890	-.04918	.00064	.00053	.00049	14.07602	15.02794	7.41253
4.000	26.394	-.00131	.69923	.05839	-.06322	.00064	.00059	.00035	10.26831	15.02794	6.46060
4.000	31.705	-.00070	.90516	.05631	-.08358	.00120	.00036	.00027	11.22024	13.12409	7.41253
4.000	37.039	.00097	1.12297	.05334	-.10606	.00095	.00112	-.00188	12.17216	11.22024	7.41253
	GRADIENT	.00010	.03553	-.00028	-.00303	.00003	.00002	-.00011	-.28160	-.31295	-.00473

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (RPM073) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 199.000
RN/L = 1.000

RUN NO. 60/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.409	-.00114	.24451	.06101	-.02991	-.00004	.00120	.00204	7.41253	7.41253	1.70096
4.000	16.499	-.00107	.36773	.06008	-.03665	-.00048	.00198	.00099	6.46060	7.41253	1.70096
4.000	20.562	-.00098	.50718	.06045	-.04735	-.00067	.00277	-.00077	4.55675	7.41253	1.70096
4.000	25.684	-.00069	.68767	.05958	-.06083	-.00132	.00358	-.00272	5.50867	7.41253	1.70096
4.000	30.772	-.00066	.88660	.05738	-.08189	-.00041	.00257	-.00129	5.50867	6.46060	1.70096
4.000	35.887	.00006	1.09728	.05375	-.10511	-.00013	.00271	-.00287	5.50867	5.50867	1.70096
	GRADIENT	.00005	.03639	-.00028	-.00320	-.00000	.00006	-.00020	-.06445	-.07690	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (RPM076) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 328.000
RN/L = 1.000

RUN NO. 61/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.418	-.00066	.24475	.06026	-.02596	-.00133	.00376	-.00238	7.41253	6.46060	2.65289
4.000	16.519	-.00029	.36783	.05978	-.03673	-.00197	.00510	-.00486	7.41253	7.41253	2.65289
4.000	20.562	-.00049	.50752	.06034	-.04746	-.00220	.00534	-.00523	5.50867	7.41253	2.65289
4.000	25.652	.00014	.68758	.05970	-.06086	-.00214	.00549	-.00705	4.55675	7.41253	1.70096
4.000	30.760	-.00002	.88113	.05748	-.07896	-.00104	.00371	-.00416	4.55675	6.46060	1.70096
4.000	35.934	-.00022	1.09700	.05346	-.10318	-.00013	.00313	-.00284	4.55675	5.50867	1.70096
	GRADIENT	.00002	.03626	-.00026	-.00308	.00006	-.00005	-.00000	-.14112	-.04974	-.05202

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (RPM077) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 559.000
RN/L = 3.000

RUN NO. 56/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.680	-.00152	.25798	.05966	-.03299	.00038	.00051	.00081	17.88372	19.78758	6.46060
4.000	16.893	-.00041	.37825	.05868	-.04113	-.00002	.00175	-.00161	16.93180	15.97987	6.46060
4.000	21.085	.00102	.51169	.05802	-.04949	-.00065	.00292	-.00437	14.07602	14.07602	6.46060
4.000	26.384	.00173	.69959	.05791	-.06331	-.00099	.00370	-.00596	11.22024	15.02794	6.46060
4.000	31.713	.00124	.90207	.05591	-.08318	-.00032	.00297	-.00459	12.17216	13.12409	6.46060
4.000	37.052	.00304	1.12142	.05336	-.10735	-.00012	.00292	-.00575	12.17216	11.22024	6.46060
	GRADIENT	.00016	.03552	-.00024	-.00301	-.00002	.00009	-.00024	-.25996	-.28891	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (RPM078) (16 JAN 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 600.000
RN/L = 1.000

RUN NO. 62/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.527	.00135	.25120	.05926	-.02930	-.00431	.00958	-.01414	6.46060	7.41253	2.65289
4.000	16.526	.00105	.36257	.05955	-.03582	-.00456	.00958	-.01368	6.46060	7.41253	2.65289
4.000	20.581	.00115	.50215	.06072	-.04462	-.00388	.00818	-.01252	5.50867	6.46060	2.65289
4.000	25.674	.00057	.68814	.05955	-.05907	-.00324	.00707	-.01005	4.55675	6.46060	2.65289
4.000	30.878	.00051	.89236	.05723	-.07924	-.00143	.00506	-.00710	5.50867	5.50867	2.65289
4.000	35.922	-.00022	1.09693	.05297	-.10314	-.00015	.00313	-.00284	4.55675	5.50867	2.65289
	GRADIENT	-.00006	.03647	-.00025	-.00314	.00019	-.00028	.00048	-.07926	-.09194	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN1 (AFM001) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 37.000
RN/L = 1.000

RUN NO. 81/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.298	-.00071	.06176	.03694	.02160	-.00025	.00051	.00087	12.05675	5.39326	3.48940
4.000	16.337	-.00108	.11023	.03759	.03707	-.00027	.00039	.00188	13.00867	5.39326	4.44133
4.000	20.403	-.00102	.15628	.03670	.05456	-.00026	.00061	.00151	13.00867	6.34518	3.48940
4.000	25.514	-.00140	.22871	.03579	.07518	-.00051	.00073	.00204	10.15289	7.29711	3.48940
4.000	30.562	-.00096	.31130	.03600	.09680	.00001	.00059	.00095	8.24904	10.15289	3.48940
4.000	35.599	-.00121	.38824	.03515	.11579	.00001	.00053	.00122	7.29711	14.91253	3.48940
	GRADIENT	-.00001	.01409	-.00015	.00408	.00001	.00000	-.00000	-.25463	.38900	-.01751

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN1 (APM002) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = .152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 328.000
RN/L = 1.000

RUN NO. 79/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.785	-.00057	.06194	.03674	.02354	-.00025	.00030	.00086	22.52794	6.34518	4.44133
4.000	15.484	-.00112	.10025	.03742	.03581	-.00028	.00038	.00197	18.72024	5.39326	4.44133
4.000	20.436	-.00100	.16219	.03655	.05349	-.00026	.00081	.00147	15.86445	5.39326	4.44133
4.000	25.494	-.00154	.22874	.03591	.07704	-.00050	.00094	.00206	12.05675	7.29711	4.44133
4.000	30.505	-.00098	.31150	.03637	.09666	.00025	.00058	.00101	9.20096	10.15289	4.44133
4.000	35.614	-.00119	.39429	.03627	.11656	.00001	.00053	.00117	5.39326	16.81638	3.48940
	GRADIENT	-.00002	.01424	-.00009	.00404	.00002	.00001	-.00001	-.70566	.42398	-.02947

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN1 (APM003) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 600.000
RN/L = 1.000

RUN NO. 80/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.451	-.00114	.06174	.03620	.02347	-.00029	.00016	.00226	26.33565	6.34518	3.48940
4.000	16.457	-.00106	.11008	.03545	.03900	-.00027	.00038	.00188	23.47987	6.34518	3.48940
4.000	20.413	-.00088	.15624	.03608	.05458	-.00026	.00040	.00150	21.57602	6.34518	3.48940
4.000	25.515	-.00140	.22881	.03526	.07711	-.00051	.00073	.00204	14.91253	7.29711	3.48940
4.000	30.549	-.00141	.31148	.03504	.09692	.00021	.00023	.00240	10.15289	10.15289	3.48940
4.000	35.637	-.00121	.39408	.03560	.11658	.00025	.00052	.00122	9.20096	13.96060	3.48940
	GRADIENT	-.00001	.01438	-.00011	.00405	.00002	.00001	-.00002	-.81109	.31690	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN40 (APM004) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 1.000

RUN NO. 73/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.389	-.00089	.07352	.03969	.02127	-.00001	.00051	.00083	7.15675	12.86831	3.34904
4.000	16.389	-.00108	.11602	.03793	.03399	-.00003	.00038	.00189	6.20482	12.86831	4.30096
4.000	20.419	-.00100	.16816	.03784	.05426	-.00002	.00061	.00147	6.20482	14.77216	3.34904
4.000	25.484	-.00152	.23491	.03661	.07412	-.00050	.00095	.00202	5.25289	14.77216	3.34904
4.000	30.582	-.00153	.31755	.03670	.09580	.00021	.00045	.00237	5.25289	15.72409	3.34904
4.000	35.617	-.00117	.40062	.03629	.11558	.00001	.00053	.00113	6.20482	15.72409	3.34904
	GRADIENT	-.00005	.01415	-.00013	.00410	.00000	.00000	.00002	-.04998	.13773	-.01756

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN40 (APM005) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 37.000
RN/L = 1.000

RUN NO. 74/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.390	-.00055	.06783	.03823	.02433	-.00025	.00030	.00081	6.20482	12.86831	3.34904
4.000	16.378	-.00108	.11037	.03578	.04097	-.00027	.00038	.00188	6.20482	12.86831	3.34904
4.000	20.427	-.00086	.16229	.03551	.05544	-.00026	.00040	.00145	5.25289	14.77216	3.34904
4.000	25.466	-.00150	.23508	.03439	.07799	-.00074	.00095	.00196	5.25289	14.77216	3.34904
4.000	30.571	-.00137	.31171	.03379	.09698	-.00027	.00024	.00229	5.25289	15.72409	3.34904
4.000	35.627	-.00116	.39471	.03457	.11860	-.00023	.00054	.00112	6.20482	15.72409	3.34904
	GRADIENT	-.00003	.01414	-.00015	.00404	-.00000	.00001	.00002	-.01495	.13733	.00000

C5

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN40 (APM006) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 100.000
RN/L = 1.000

RUN NO. 75/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.398	-.00109	.06215	.03479	.02745	-.00077	.00017	.00215	7.15675	12.86831	3.34904
4.000	16.429	-.00160	.11056	.03328	.04295	-.00079	.00025	.00317	7.15675	13.82023	3.34904
4.000	20.481	-.00196	.16244	.03243	.05929	-.00082	.00013	.00415	6.20482	14.77216	3.34904
4.000	25.507	-.00193	.22928	.03197	.08107	-.00102	.00060	.00334	6.20482	14.77216	3.34904
4.000	30.574	-.00192	.31197	.03161	.10273	-.00055	.00011	.00364	7.15675	14.77216	3.34904
4.000	35.619	-.00155	.39501	.03186	.12434	-.00075	.00019	.00240	7.15675	17.62794	3.34904
	GRADIENT	-.00002	.01431	-.00012	.00419	.00000	.00000	.00001	.00248	.16281	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN40 (APM007) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 199.000
RN/L = 1.000

RUN NO. 76/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.337	-.00166	.03644	.03083	.03063	-.00105	.00003	.00355	7.15675	13.82023	3.34904
4.000	16.408	-.00160	.10478	.02998	.04607	-.00103	.00025	.00316	7.15675	13.82023	3.34904
4.000	20.408	-.00193	.15890	.02884	.06244	-.00129	.00014	.00408	7.15675	13.82023	3.34904
4.000	25.319	-.00220	.22934	.02795	.08310	-.00131	.00005	.00466	5.25289	13.82023	3.34904
4.000	30.573	-.00209	.30628	.02770	.10595	-.00060	-.00067	.00505	6.20482	14.77216	3.34904
4.000	35.654	-.00196	.39503	.02830	.12636	-.00103	-.00015	.00373	6.20482	16.67602	3.34904
	GRADIENT	-.00002	.01448	-.00012	.00414	.00001	-.00002	.00004	-.05750	.10745	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN40 (APH008) (06 FEB 74)

REFERENCE DATA

SREF = .7249 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
MREF = 19.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 320.000
RN/L = 1.000

RUN NO. 77/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.360	-.00219	.05673	.02892	.03644	-.00157	-.00010	.00483	8.10867	13.82023	3.34904
4.000	16.400	-.00262	.10518	.02494	.09005	-.00183	.00020	.00582	8.10867	13.82023	3.34904
4.000	20.439	-.00388	.15710	.02355	.06458	-.00189	.00015	.00822	7.15675	13.82023	3.34904
4.000	25.510	-.00364	.22953	.02351	.03709	-.00143	-.00080	.00885	6.20482	13.82023	3.34904
4.000	30.542	-.00365	.30655	.02334	.10991	-.00096	-.00130	.00920	5.25289	14.77216	3.34904
4.000	35.442	-.00338	.38933	.02272	.13141	-.00164	-.00099	.00785	7.15675	15.72409	3.34904
	GRADIENT	-.00005	.01421	-.00015	.00414	.00002	-.00006	.00015	-.08495	.07760	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BTN40 (APH009) (06 FEB 74)

REFERENCE DATA

SREF = .7249 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
MREF = 19.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 600.000
RN/L = 1.000

RUN NO. 78/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.343	-.00339	.05152	.01631	.04558	-.00260	-.00016	.00748	8.10867	11.91638	3.34904
4.000	16.413	-.00462	.09985	.01420	.06108	-.00266	.00000	.00992	8.10867	11.91638	3.34904
4.000	20.439	-.00488	.14587	.01292	.07673	-.00245	-.00034	.01099	6.20482	13.82023	3.34904
4.000	25.531	-.00507	.21823	.01217	.09740	-.00234	-.00164	.01302	6.20482	13.82023	3.34904
4.000	30.587	-.00474	.30110	.01314	.12088	-.00176	-.00157	.01188	5.25289	15.72409	3.34904
4.000	35.644	-.00445	.38415	.01317	.14052	-.00267	-.00125	.01049	7.15675	16.67602	3.34904
	GRADIENT	-.00003	.01431	-.00011	.00412	.00002	-.00007	.00013	-.07744	.21493	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWN41 (APM010) 06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 1.000

RUN NO. 67/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.447	-.00099	.29077	.05778	-.03466	.00022	.00031	.00092	7.21638	8.16831	5.31253
4.000	16.529	-.00032	.37238	.05828	-.04021	.00050	.00063	-.00033	6.26445	7.21638	5.31253
4.000	20.580	-.00042	.50418	.05819	-.04783	.00051	.00078	-.00058	4.36060	7.21638	4.36060
4.000	25.682	-.00038	.68434	.05737	-.05995	.00076	.00086	-.00095	4.36060	7.21638	4.36060
4.000	30.789	-.00040	.87898	.05689	-.07025	.00077	.00107	-.00105	4.36060	6.26445	4.36060
4.000	35.881	.00043	1.08536	.05369	-.09191	.00129	.00098	-.00256	4.36060	5.31253	4.36060
	GRADIENT	.00003	.05568	-.00016	-.00288	.00004	.00003	-.00012	-.11671	-.10438	-.04469

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWN41 (APM011) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 37.000
RN/L = 1.000

RUN NO. 68/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.400	-.00061	.29137	.05747	-.03458	.00046	.00031	.00097	5.31253	6.26445	4.36060
4.000	16.908	-.00091	.36642	.05784	-.03909	.00046	.00054	.00113	5.31253	6.26445	4.36060
4.000	20.547	-.00044	.49814	.05785	-.04650	.00051	.00078	-.00053	5.31253	6.26445	4.36060
4.000	25.704	-.00036	.68339	.05771	-.05992	.00052	.00087	-.00100	4.36060	6.26445	4.36060
4.000	30.809	-.00028	.87200	.05614	-.07965	.00076	.00085	-.00101	5.31253	6.26445	4.36060
4.000	35.880	.00044	1.08409	.05415	-.10374	.00105	.00099	-.00260	4.36060	5.31253	5.31253
	GRADIENT	.00004	.03558	-.00014	-.00294	.00002	.00003	-.00015	-.03471	-.02970	.02970

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWN41 (APM012) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 100.000
RN/L = 1.000

RUN NO. 69/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.401	-.00061	.25046	.05752	-.03269	.00046	.00030	.00097	5.31253	6.26445	4.36060
4.000	16.506	-.00077	.36619	.05838	-.03910	.00046	.00033	.00111	5.31253	6.26445	5.31253
4.000	20.569	-.00029	.50363	.05820	-.04758	.00051	.00057	-.00059	5.31253	6.26445	5.31253
4.000	25.682	-.00095	.68324	.05784	-.05989	.00072	.00072	.00046	4.36060	6.26445	5.31253
4.000	30.778	-.00026	.87760	.05688	-.08075	.00076	.00085	-.00106	5.31253	5.31253	5.31253
4.000	35.906	-.00311	1.08975	.05400	-.10292	.00101	.00085	-.00125	4.36060	5.31253	5.31253
	GRADIENT	.00002	.03583	-.00014	-.00298	.00002	.00003	-.00010	-.03472	-.04709	.02728

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWN41 (APM013) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 199.000
RN/L = 1.000

RUN NO. 70/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.410	-.00061	.25023	.05740	-.03266	.00046	.00030	.00097	6.26445	6.26445	3.40867
4.000	16.549	-.00075	.37168	.05804	-.04013	.00046	.00033	.00106	5.31253	6.26445	4.36060
4.000	20.569	-.00042	.50321	.05872	-.04757	.00051	.00078	-.00057	4.36060	6.26445	4.36060
4.000	25.690	-.00040	.67700	.05665	-.05870	.00076	.00086	-.00090	4.36060	6.26445	4.36060
4.000	30.768	-.00026	.87767	.05641	-.07883	.00076	.00085	-.00106	5.31253	5.31253	4.36060
4.000	35.891	-.00015	1.06344	.05348	-.10363	.00124	.00084	-.00114	4.36060	5.31253	3.40867
	GRADIENT	.00002	.03556	-.00017	-.00295	.00003	.00003	-.00010	-.05466	-.04716	-.00246

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWN41 (APM014) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 328.000
RN/L = 1.000

RUN NO. 71/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.391	-.00061	.25033	.05812	-.03271	.00046	.00030	.00097	6.26445	6.26445	4.36060
4.000	16.500	-.00039	.37195	.05843	-.03829	.00046	.00054	.00108	5.31253	6.26445	4.36060
4.000	20.594	-.00100	.50894	.05801	-.04670	.00071	.00064	.00083	4.36060	6.26445	3.40867
4.000	25.682	-.00095	.68261	.05665	-.05978	.00072	.00072	.00046	4.36060	6.26445	3.40867
4.000	30.768	-.00026	.87700	.05637	-.07877	.00076	.00085	-.00106	4.36060	5.31253	3.40867
4.000	35.929	-.00011	1.08900	.05382	-.10286	.00101	.00085	-.00124	4.36060	5.31253	4.36060
	GRADIENT	.00003	.03562	-.00018	-.00296	.00002	.00002	-.00011	-.07186	-.04704	-.01481

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWN41 (APM015) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 600.000
RN/L = 1.000

RUN NO. 72/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.460	-.00117	.25596	.05758	-.03375	.00042	.00017	.00233	6.26445	6.26445	4.36060
4.000	16.530	-.00089	.37174	.05820	-.03825	.00046	.00054	.00107	5.31253	6.26445	3.40867
4.000	20.573	-.00100	.50900	.05815	-.04672	.00071	.00064	.00084	4.36060	6.26445	3.40867
4.000	25.684	-.00093	.68863	.05721	-.06092	.00072	.00072	.00041	4.36060	6.26445	3.40867
4.000	30.804	-.00095	.88271	.05612	-.07986	.00072	.00093	.00031	4.36060	5.31253	4.36060
4.000	35.894	-.00082	1.08868	.05344	-.10280	.00097	.00092	.00017	3.40867	5.31253	4.36060
	GRADIENT	.00001	.03569	-.00017	-.00296	.00002	.00003	-.00008	-.10177	-.04724	.01995

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM016) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 15/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.500	-.155	-.00034	-.01637	.08728	-.00920	-.00008	.00029	-.00044	108.93403	124.16486	48.96263
2.500	4.111	.00132	.11155	.08401	-.02545	.00007	.00018	-.00092	104.17439	108.93403	53.72226
2.500	8.362	.00307	.23684	.08105	-.04194	.00027	.00027	-.00189	89.89549	93.70320	47.05877
2.500	12.682	.00261	.36629	.07750	-.05682	.00037	.00025	-.00178	61.33768	80.37622	40.39529
2.500	16.967	.00231	.50349	.07430	-.07174	.00043	.00044	-.00192	47.05877	66.09732	34.68372
2.500	21.300	.00172	.64945	.07078	-.08569	.00048	.00055	-.00177	31.82794	52.77034	34.68372
	GRADIENT	.00039	.02999	-.00077	-.00381	.00004	-.00003	-.00011	-1.11572	-3.57028	1.11571

RUN NO. 19/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.221	-.00056	-.02462	.07996	-.01159	.00027	.00031	-.00037	74.66466	80.37622	25.16445
2.950	4.014	.00087	.08571	.07675	-.02407	.00032	.00037	-.00102	74.66466	69.90502	28.02024
2.950	8.369	.00176	.20655	.07423	-.03507	.00029	.00047	-.00166	56.57805	57.52997	24.21253
2.950	12.547	.00220	.32286	.07124	-.04634	.00048	.00044	-.00200	38.49143	48.01070	20.40482
2.950	16.765	.00215	.45260	.06894	-.06001	.00054	.00043	-.00199	27.06831	39.44336	17.54904
2.950	21.013	.00228	.59393	.06602	-.07237	.00054	.00042	-.00202	21.35675	30.87602	16.59711
	GRADIENT	.00034	.02605	-.00076	-.00295	.00001	.00001	-.00015	-.00000	-2.47254	.67433

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM017) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -5.000 PO-JET = .000
RN/L = 3.000

RUN NO. 16/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	FB1	FB2	FB3
2.500	-.178	-5.17613	-.01498	.08868	-.01033	-.00223	-.00071	.07813	148.91496	147.96304	46.10685
2.500	4.046	-5.16699	.10991	.08560	-.02724	-.00112	.00057	.07226	128.92450	130.82835	46.10685
2.500	8.408	-5.15995	.23870	.08140	-.04338	.00076	.00180	.06730	109.88596	114.64559	43.25107
2.500	12.710	-5.15773	.36759	.07765	-.05847	.00262	.00310	.06439	94.65512	100.36669	37.53951
2.500	17.149	-5.15733	.50895	.07391	-.07282	.00411	.00515	.06136	80.37622	85.13586	34.69372
2.500	21.293	-5.15969	.65093	.07023	-.08594	.00535	.00704	.05999	73.71273	71.80888	31.82794
	GRADIENT	.00216	.02957	-.00073	-.00400	.00026	.00030	-.00139	-4.73259	-4.05651	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM018) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 187.000
RN/L = 3.000

RUN NO. 16/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	FB1	FB2	FB3
2.500	-.190	-.00045	-.01503	.08766	-.00863	-.00018	.00033	-.00045	184.13626	51.81841	48.01070
2.500	4.107	.00145	.11419	.08431	-.02638	.00017	.00014	-.00092	172.71314	50.86648	51.81841
2.500	8.403	.00196	.23950	.08124	-.04246	.00025	.00021	-.00129	153.67460	48.01070	46.10685
2.500	12.665	.00265	.36756	.07763	-.05750	.00032	.00025	-.00180	127.02064	42.29914	39.44336
2.500	17.096	.00237	.50776	.07428	-.07209	.00043	.00044	-.00195	99.41476	33.73180	34.68372
2.500	21.303	.00203	.65126	.07071	-.08599	.00019	.00068	-.00208	79.42429	35.63565	33.73180
	GRADIENT	.00044	.03007	-.00078	-.00413	.00006	-.00004	-.00011	-2.65839	-.22153	.88613

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM019) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -5.000 PO-JET = 187.000
RN/L = 3.000

RUN NO. 17/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.500	-.214	-5.17555	-.01631	.08874	-.01094	-.00228	-.00068	.07783	215.54985	59.43383	46.10685
2.500	4.136	-5.16595	.11380	.08569	-.02796	-.00104	.00068	.07163	180.32856	50.86648	45.15492
2.500	8.381	-5.15979	.23871	.08170	-.04340	.00070	.00175	.06728	152.72267	43.25107	41.34721
2.500	12.719	-5.15757	.36768	.07765	-.05849	.00256	.00305	.06439	135.58799	36.58758	36.58758
2.500	16.975	-5.15725	.50266	.07420	-.07208	.00400	.00510	.06140	121.30908	33.73180	33.73180
2.500	21.288	-5.15921	.64859	.07028	-.08548	.00552	.00707	.05976	109.88596	37.53951	30.87602
	GRADIENT	.00221	.02991	-.00070	-.00391	.00029	.00031	-.00143	-8.09685	-1.90951	-.21883

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM020) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 157.000
RN/L = 3.000

RUN NO. 20/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.226	-.00055	-.02310	.08005	-.01233	.00027	.00031	-.00038	125.11679	29.92409	25.16445
2.950	3.961	.00072	.08415	.07707	-.02427	.00032	.00042	-.00101	115.59752	27.06831	26.11638
2.950	8.246	.00142	.20337	.07438	-.03496	.00035	.00057	-.00161	97.51091	24.21253	24.21253
2.950	12.527	.00220	.32282	.07141	-.04683	.00048	.00044	-.00200	77.52044	18.50096	19.45289
2.950	16.847	.00274	.45418	.06881	-.06028	.00055	.00046	-.00235	55.62612	18.50096	17.54904
2.950	21.077	.00217	.59479	.06555	-.07255	.00048	.00047	-.00204	45.15492	20.40482	18.50096
	GRADIENT	.00030	.02561	-.00071	-.00285	.00001	.00003	-.00015	-2.27353	-.68206	.22735

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM021) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 1.000

RUN NO. 1/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.418	-.00005	.24297	.06200	-.02922	.00053	.00054	-.00147	8.02977	6.12591	2.31821
4.000	16.526	-.00021	.36044	.06053	-.03430	.00052	.00051	-.00131	7.07784	6.12591	2.31821
4.000	20.559	-.00032	.49785	.06000	-.04278	.00075	.00045	-.00093	5.17399	6.12591	2.31821
4.000	25.703	-.00037	.67676	.05949	-.05512	.00047	.00065	-.00098	5.17399	6.12591	2.31821
4.000	30.767	-.00016	.87078	.05653	-.07587	.00085	.00042	-.00101	6.12591	4.22206	2.31821
4.000	35.902	.00043	1.07688	.05301	-.09886	.00081	.00078	-.00262	5.17399	4.22206	2.31821
	GRADIENT	.00002	.03566	-.00036	-.00297	.00001	.00001	-.00003	-.09922	-.09425	-.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM022) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -2.500 PO-JET = .000
RN/L = 1.000

RUN NO. 8/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.391	-2.51284	.24274	.06210	-.02733	.00114	.00156	.02860	8.98170	7.07784	2.31821
4.000	16.486	-2.51291	.35945	.06115	-.03422	.00190	.00227	.02756	8.02977	6.12591	1.36628
4.000	20.569	-2.51345	.49640	.06076	-.04071	.00237	.00284	.02802	8.02977	6.12591	1.36628
4.000	25.659	-2.51338	.67558	.05899	-.05488	.00262	.00379	.02671	7.07784	5.17399	1.36628
4.000	30.764	-2.51287	.86311	.05755	-.07258	.00418	.00289	.02694	6.12591	6.12591	1.36628
4.000	35.880	-2.51157	1.07429	.05357	-.09652	.00470	.00415	.02262	8.02977	5.17399	1.36628
	GRADIENT	.00004	.03546	-.00034	-.00290	.00015	.00009	-.00020	-.06693	-.06201	-.02729

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM023) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8928 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -5.000 PO-JET = .000
RN/L = 1.000

RUN NO. 7/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.476	-5.04109	.24179	.06183	-.02720	.00255	.00304	.05598	10.88555	8.98170	2.31821
4.000	16.505	-5.04104	.35824	.06137	-.03404	.00383	.00451	.05370	9.93362	8.02977	1.36628
4.000	20.656	-5.04190	.50059	.06051	-.04149	.00503	.00547	.05429	8.98170	8.02977	1.36628
4.000	25.667	-5.04080	.66776	.05879	-.05338	.00630	.00667	.05048	8.02977	7.07784	1.36628
4.000	30.822	-5.04013	.86649	.05813	-.07325	.00839	.00654	.04934	7.07784	7.07784	1.36628
4.000	35.947	-5.03898	1.07190	.05411	-.09609	.00891	.00800	.04509	7.07784	8.98170	1.36628
	GRADIENT	.00009	.03543	-.00031	-.00290	.00028	.00019	-.00044	-.17111	-.01961	-.02723

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM024) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8928 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 11/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.704	-.00438	.25423	.06078	-.03157	.00018	.00030	.00240	20.40482	17.54904	5.17399
4.000	16.868	-.00464	.37382	.05979	-.03934	.00034	.00043	.00235	17.54904	14.69326	5.17399
4.000	21.076	-.00461	.50519	.05922	-.04661	.00034	.00049	.00228	14.69326	12.78940	5.17399
4.000	26.383	-.00390	.69111	.05872	-.06044	.00034	.00052	.00178	11.83748	11.83748	5.17399
4.000	31.708	-.00346	.89174	.05664	-.08002	.00079	.00036	.00173	12.78940	13.74133	5.17399
4.000	37.056	-.00250	1.11015	.05352	-.10417	.00071	.00067	.00052	12.78940	9.93362	5.17399
	GRADIENT	.00009	.03521	-.00027	-.00294	.00002	.00001	-.00007	-.31238	-.23871	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM025) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 5.000

RUN NO. 13/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.955	-.00504	.26131	.06052	-.03215	.00044	.00033	.00151	30.87602	30.87602	8.98170
4.000	17.305	-.00427	.38513	.05937	-.04001	.00041	.00040	.00106	24.21253	25.16445	8.98170
4.000	21.604	-.00392	.52037	.05850	-.04730	.00046	.00044	.00088	23.26060	19.45289	8.98170
4.000	27.212	-.00260	.71743	.05735	-.06321	.00051	.00053	.00023	14.69326	17.54904	8.98170
	GRADIENT	.00016	.03204	-.00022	-.00215	.00001	.00001	-.00009	-1.06054	-.95339	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM026) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 35.000
RN/L = 1.000

RUN NO. 2/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.425	-.00063	.23732	.06141	-.02813	.00025	.00041	-.00008	7.07784	3.27013	2.31821
4.000	16.516	-.00077	.36023	.06054	-.03431	.00024	.00038	.00004	7.07784	3.27013	2.31821
4.000	20.568	-.00089	.49152	.06038	-.04166	.00047	.00032	.00047	8.02977	3.27013	2.31821
4.000	25.678	-.00037	.67075	.05732	-.05581	.00023	.00065	-.00099	8.98170	3.27013	2.31821
4.000	30.779	-.00071	.86466	.05586	-.07476	.00033	.00029	.00033	6.12591	3.27013	2.31821
4.000	35.869	-.00010	1.07041	.05250	-.09584	.00005	.00065	-.00132	6.12591	3.27013	2.31821
	GRADIENT	.00002	.03555	-.00038	-.00290	-.00001	.00001	-.00004	-.04475	.00000	-.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM027) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 100.000
RN/L = 3.000

RUN NO. 12/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.698	-.00436	.25661	.06091	-.03135	.00026	.00030	.00240	28.02024	7.07784	5.17399
4.000	16.868	-.00464	.37443	.05993	-.03941	.00034	.00043	.00236	22.30867	6.12591	5.17399
4.000	21.111	-.00388	.50716	.05915	-.04633	.00036	.00047	.00179	22.30867	6.12591	5.17399
4.000	25.401	-.00346	.68722	.05831	-.05907	.00019	.00064	.00131	27.06831	6.12591	5.17399
4.000	31.725	-.00341	.88790	.05603	-.07929	.00039	.00037	.00168	25.16445	6.12591	5.17399
4.000	.053	-.00249	1.10831	.05332	-.10384	.00023	.00082	.00046	15.64518	6.12591	5.17399
	GRADIENT	.00008	.03496	-.00030	-.00291	-.00000	.00002	-.00007	-.28447	-.02618	-.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM028) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 170.000
RN/L = 5.000

RUN NO. 14/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.978	-.00443	.26251	.06049	-.03199	.00040	.00036	.00121	48.96263	10.88555	9.93362
4.000	17.306	-.00429	.38513	.05938	-.03963	.00045	.00040	.00107	40.39529	9.93362	8.98170
4.000	21.636	-.00406	.52202	.05839	-.04755	.00051	.00049	.00088	42.29914	9.93362	8.98170
4.000	27.153	-.00272	.71516	.05720	-.06239	.00037	.00057	.00022	42.29914	9.93362	9.93362
	GRADIENT	.00012	.03199	-.00023	-.00213	-.00000	.00002	-.00007	-.36807	-.05866	.00514

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM029) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 188.000
RN/L = 1.000

RUN NO. 3/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.426	-.00117	.23741	.06085	-.02624	-.00003	.00027	.00127	32.77987	3.27013	2.31821
4.000	16.533	-.00134	.35424	.05981	-.03318	-.00004	.00024	.00144	28.02024	3.27013	2.31821
4.000	20.544	-.00041	.48571	.05880	-.04053	-.00020	.00068	-.00104	20.40482	3.27013	2.31821
4.000	25.709	-.00113	.66469	.05763	-.05292	-.00100	.00096	.00022	11.83748	3.27013	2.31821
4.000	30.781	-.00092	.85276	.05519	-.07260	-.00086	.00074	.00018	7.07784	3.27013	2.31821
4.000	35.896	-.00087	1.06432	.05177	-.09668	-.00119	.00096	-.00011	6.12591	3.27013	2.31821
	GRADIENT	.00001	.03525	-.00037	-.00295	-.00006	.00003	-.00005	-1.22827	.00000	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM030) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 310.000
RN/L = 1.000

RUN NO. 4/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.445	-.00175	.23728	.06010	-.02620	-.00007	.00013	.00267	35.63565	3.27013	2.31821
4.000	16.524	-.00131	.35428	.05875	-.03125	-.00027	.00025	.00138	27.06831	3.27013	2.31821
4.000	20.557	-.00159	.49172	.05866	-.03982	-.00123	.00064	.00152	12.78940	3.27013	2.31821
4.000	25.644	-.00190	.66516	.05744	-.05300	-.00199	.00127	.00144	9.93362	3.27013	2.31821
4.000	30.645	-.00210	.86440	.05535	-.07110	-.00165	.00069	.00275	7.07784	2.31821	2.31821
4.000	35.699	-.00211	1.06440	.05180	-.09294	-.00174	.00090	.00260	6.12591	2.31821	2.31821
	GRADIENT	-.00003	.03541	-.00032	-.00285	-.00008	.00003	.00003	-1.24133	-.04724	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM031) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = 5.000 PO-JET = 310.000
RN/L = 1.000

RUN NO. 5/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.409	5.04680	.23922	.06181	-.02477	-.00449	-.00293	-.04685	36.58758	3.27013	2.31821
4.000	16.568	5.04665	.36224	.06034	-.03294	-.00620	-.00368	-.04575	14.69326	3.27013	2.31821
4.000	20.558	5.04658	.49400	.06006	-.04043	-.00698	-.00469	-.04417	8.98170	2.31821	1.36628
4.000	25.686	5.04682	.68749	.05817	-.05362	-.00803	-.00588	-.04299	6.12591	2.31821	1.36628
4.000	30.785	5.04593	.85606	.05768	-.06985	-.01012	-.00611	-.04067	5.17399	2.31821	1.36628
4.000	35.867	5.04526	1.06789	.05340	-.09203	-.01077	-.00679	-.03823	4.22206	2.31821	2.31821
	GRADIENT	-.00006	.03522	-.00032	-.00281	-.00027	-.00017	.00036	-1.13161	-.04465	-.01483

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM032) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = -2.500 PO-JET = 310.000
RN/L = 1.000

RUN NO. 9/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.410	-2.51328	.24274	.06196	-.02733	.00110	.00121	.02999	36.58758	4.22206	1.36628
4.000	16.527	-2.51344	.35955	.06087	-.03235	.00138	.00215	.02805	29.92409	3.27013	1.36628
4.000	20.575	-2.51368	.48476	.05844	-.03845	.00185	.00249	.02939	36.58758	3.27013	1.36628
4.000	25.679	-2.51367	.67009	.05712	-.05194	.00095	.00446	.02642	15.64518	3.27013	1.36628
4.000	30.752	-2.51365	.85786	.05645	-.06972	.00224	.00364	.02802	7.07784	2.31821	1.36628
4.000	35.909	-2.51241	1.06298	.05219	-.09256	.00251	.00469	.02368	6.12591	2.31821	1.36628
	GRADIENT	.00002	.03509	-.00038	-.00276	.00005	.00014	-.00023	-1.47875	-.07445	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM033) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8826 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -5.000 PO-JET = 310.000
RN/L = 1.000

RUN NO. 6/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.438	-5.04052	.24181	.06155	-.02718	.00259	.00318	.05458	43.25107	3.27013	2.31821
4.000	16.538	-5.04086	.36419	.06114	-.03514	.00359	.00431	.05359	38.49143	3.27013	2.31821
4.000	20.642	-5.04190	.49477	.06003	-.04040	.00479	.00548	.05428	29.92409	3.27013	2.31821
4.000	25.657	-5.04083	.66814	.05714	-.05151	.00511	.00691	.05022	34.68372	3.27013	2.31821
4.000	30.761	-5.03982	.85579	.05621	-.07116	.00629	.00736	.04761	15.64518	3.27013	1.36628
4.000	35.886	-5.03911	1.06086	.05221	-.09209	.00677	.00847	.04472	11.83748	3.27013	2.31821
	GRADIENT	.00007	.03491	-.00039	-.00272	.00018	.00022	-.00044	-1.34383	.00000	-.01736

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM034) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8826 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 537.000
RN/L = 3.000

RUN NO. 91/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.717	-.00495	.25661	.05067	-.03134	.00024	.00026	.00287	73.71273	6.12591	6.12591
4.000	16.809	-.00490	.37445	.05933	-.03675	.00034	.00036	.00235	76.56851	6.12591	6.12591
4.000	21.129	-.00514	.50522	.05815	-.04595	.00017	.00045	.00271	53.72226	7.07784	7.07784
4.000	26.368	-.00410	.68550	.05735	-.05873	-.00068	.00108	.00117	35.63565	6.12591	6.12591
4.000	31.680	-.00416	.88629	.05553	-.07836	-.00065	.00089	.00151	18.50096	6.12591	5.17399
4.000	37.035	-.00414	1.10277	.05276	-.10219	-.00091	.00111	.00124	10.88555	6.12591	5.17399
	GRADIENT	.00004	.03485	-.00030	-.00287	-.00006	.00004	-.00007	-2.96026	-.00720	-.05274

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN1 (APM033) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 600.000
RN/L = 1.000

RUN NO. 10/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.418	-.00336	.23785	.06033	-.02447	-.00139	-.00025	.00661	34.68372	3.27013	1.36628
4.000	16.903	-.00387	.34923	.05888	-.02851	-.00234	.00037	.00665	21.35675	3.27013	1.36628
4.000	20.608	-.00419	.48648	.05828	-.03697	-.00283	.00075	.00689	11.83748	3.27013	1.36628
4.000	25.687	-.00461	.68003	.05660	-.04829	-.00382	.00159	.00677	8.98170	2.31821	1.36628
4.000	30.762	-.00504	.85375	.05534	-.06719	-.00305	.00023	.00961	6.12591	2.31821	1.36628
4.000	35.957	-.00410	1.06218	.05251	-.09131	-.00353	.00116	.00649	5.17399	2.31821	1.36628
	GRADIENT	-.00004	.03529	-.00031	-.00282	-.00008	.00004	.00005	-1.15408	-.05197	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APN036) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 37/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	FB1	FB2	FB3
2.500	-.216	.00140	-.01998	.08722	-.00819	-.00018	.00035	-.00113	105.86669	129.66406	53.51070
2.500	4.070	.00255	.10861	.08419	-.02567	.00010	.00019	-.00146	101.10705	111.57825	56.36648
2.500	8.460	.00380	.23795	.08107	-.04235	.00022	.00025	-.00212	85.87622	95.39549	48.75107
2.500	12.685	.00431	.36432	.07751	-.05692	.00034	.00032	-.00145	60.17419	82.06851	43.99143
2.500	16.962	.00346	.50201	.07429	-.07159	.00027	.00027	-.00195	44.94336	67.78961	35.42409
2.500	21.308	.00361	.64999	.07081	-.08611	.00028	.00039	-.00213	30.66445	53.51070	35.42409
	GRADIENT	.00027	.03003	-.00071	-.00408	.00007	-.00004	-.00008	-1.11051	-4.21993	.66630

RUN NO. 39/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	FB1	FB2	FB3
2.950	-.182	.00031	-.02428	.08012	-.01173	.00026	.00021	-.00045	71.59732	83.97237	27.80867
2.950	4.065	.00157	.08384	.07701	-.02458	.00028	.00034	-.00129	72.54924	72.54924	28.76020
2.950	8.363	.00131	.20446	.07459	-.03550	.00022	.00037	-.00119	55.41456	59.22226	25.90482
2.950	12.671	.00206	.32324	.07138	-.04649	.00040	.00022	-.00137	36.37602	48.75107	24.00096
2.950	16.769	.00257	.45020	.06893	-.06020	.00041	.00025	-.00165	26.85675	41.13565	19.24133
2.950	21.026	.00295	.59210	.06608	-.07290	.00054	.00040	-.00200	20.19326	32.56831	19.24133
	GRADIENT	.00030	.02546	-.00073	-.00303	.00000	.00003	-.00020	.22414	-2.68969	.22414

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM037) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 151.000
RN/L = 3.000

RUN NO. 40/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.234	-.00029	-.03008	.07732	-.00860	.00013	.00017	-.00008	72.54924	84.92429	32.56831
2.950	4.046	.00118	.07963	.07458	-.02128	.00003	.00026	-.00097	74.45310	72.54924	32.56831
2.950	8.207	.00012	.19590	.07269	-.03237	.00001	.00030	-.00046	56.36648	59.22226	28.76060
2.950	12.485	.00145	.31293	.06875	-.04301	.00015	.00018	-.00100	36.37602	48.75107	26.85675
2.950	16.770	.00164	.44743	.06628	-.05669	.00009	.00014	-.00099	25.90482	41.13565	23.04904
2.950	21.034	.00095	.58654	.06342	-.06840	-.00016	.00022	-.00079	21.14518	33.52024	23.04904
	GRADIENT	.00034	.02563	-.00064	-.00296	-.00002	.00002	-.00021	.44483	-2.89137	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM038) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 185.000
RN/L = 3.000

RUN NO. 38/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.900	-.174	.00078	-.02388	.08457	-.00563	-.00019	.00032	-.00079	104.91476	129.66486	57.31841
2.900	4.069	.00225	.10226	.08174	-.02266	-.00013	.00007	-.00115	102.05898	111.57825	55.41456
2.900	8.332	.00291	.23016	.07953	-.03963	-.00001	.00009	-.00149	87.78007	96.34742	48.75107
2.900	12.641	.00289	.35751	.07515	-.05301	.00004	.00013	-.00152	60.17419	83.02044	45.89529
2.900	16.985	.00307	.49577	.07143	-.06773	-.00006	.00020	-.00166	44.94336	67.78961	43.03951
2.900	21.268	.00273	.64131	.06781	-.08095	-.00044	.00030	-.00159	33.52024	60.17419	43.03951
	GRADIENT	.00035	.02973	-.00067	-.00401	.00001	-.00006	-.00008	-.67306	-4.26269	-.44870

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM039) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

ALPHA = 27.500
RN/L = 1.000

RUN NO. 830/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	PO-JET	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	-.547	-.00267	.79566	.05874	-.06990	.00035	.00087	.00517	5.91435	5.91435	4.01050
4.000	-.092	-.00210	.79633	.05836	-.06996	.00039	.00101	.00377	4.01050	4.01050	4.01050
4.000	38.131	-.00279	.79083	.05585	-.06688	-.00013	.00109	.00513	4.96243	4.96243	4.01050
4.000	198.760	-.00240	.78026	.04892	-.05705	-.00376	.00511	-.00106	4.96243	4.96243	4.01050
4.000	327.310	-.00276	.76885	.04340	-.04895	-.00471	.00575	-.00115	4.01050	4.96243	4.01050
4.000	601.246	-.00320	.75179	.03212	-.03565	-.00523	.00539	.00026	4.01050	4.01050	4.01050
	GRADIENT	.00125	.00147	-.00084	-.00013	.00009	.00031	-.00308	-4.18429	-4.18429	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM040) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 1.000

RUN NO. 26/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.447	-.00120	.24425	.06302	-.02994	.00042	.00016	.00242	8.77013	7.81821	4.96243
4.000	16.485	-.00079	.36149	.06228	-.03703	.00044	.00029	.00150	7.81821	6.86628	4.96243
4.000	20.642	-.00089	.50129	.06172	-.04491	.00067	.00033	.00186	6.86628	6.86628	4.96243
4.000	25.645	-.00096	.67606	.05904	-.05887	.00044	.00058	.00186	5.91435	6.86628	4.96243
4.000	30.766	-.00059	.87508	.05698	-.08077	.00091	.00015	.00180	5.91435	6.86628	4.01050
4.000	35.892	-.00012	1.08561	.05304	-.10478	.00096	.00071	.00019	5.91435	5.91435	4.01050
	GRADIENT	.00004	.03598	-.00042	-.00318	.00002	.00002	-.00006	-.12418	-.05717	-.04722

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM041) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -2.500 PO-JET = .000
RN/L = 1.000

RUN NO. 34/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.434	-2.51257	.25533	.06127	-.03004	.00187	.00200	.02837	8.77013	7.81821	4.01050
4.000	16.513	-2.51333	.37803	.06077	-.03815	.00258	.00281	.02902	7.81821	7.81821	4.01050
4.000	20.576	-2.51316	.51758	.06026	-.04788	.00310	.00340	.02805	6.86628	6.86628	4.01050
4.000	25.713	-2.51365	.70377	.05840	-.06214	.00335	.00428	.02810	5.91435	6.86628	4.01050
4.000	30.775	-2.51315	.89068	.05683	-.07982	.00525	.00337	.02841	5.91435	6.86628	4.01050
4.000	35.928	-2.51181	1.10695	.05218	-.10295	.00562	.00463	.02402	6.86628	5.91435	4.01050
	GRADIENT	.00003	.03626	-.00036	-.00307	.00016	.00009	-.00015	-.09414	-.07441	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM042) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -5.000 PO-JET = .000
RN/L = 1.000

RUN NO. 31/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.474	-5.04082	.26044	.06254	-.03108	.00353	.00348	.05583	10.67399	9.72206	4.01050
4.000	16.543	-5.04132	.37733	.06158	-.03805	.00452	.00484	.05521	10.67399	8.77013	4.01050
4.000	20.673	-5.04205	.52259	.06115	-.04882	.00572	.00570	.05579	8.77013	8.77013	4.01050
4.000	25.667	-5.04107	.69724	.05923	-.06078	.00704	.00717	.05194	7.81821	7.81821	4.01050
4.000	30.753	-5.04042	.88971	.05803	-.07953	.00923	.00703	.05087	6.86628	7.81821	4.01050
4.000	35.916	-5.03925	1.10612	.05389	-.10268	.01009	.00849	.04659	6.86628	8.77013	4.01050
	GRADIENT	.00007	.03613	-.00034	-.00302	.00029	.00020	-.00039	-.18904	-.04958	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM043) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 21/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.678	-.00069	.25618	.06063	-.03331	.00040	.00040	-.00002	21.14518	20.19326	7.81821
4.000	16.865	-.00083	.37388	.05956	-.04145	.00056	.00047	.00003	17.33748	16.38555	7.81821
4.000	21.079	-.00062	.50918	.05896	-.04921	.00057	.00050	-.00008	14.48170	14.48170	7.81821
4.000	26.380	-.00001	.69695	.05837	-.06299	.00051	.00061	-.00061	11.62591	14.48170	7.81821
4.000	31.711	-.00069	.90408	.05605	-.08436	.00104	.00036	.00026	11.62591	14.48170	7.81821
4.000	37.049	.00109	1.12400	.05300	-.10886	.00093	.00072	-.00143	11.62591	11.62591	7.81821
	GRADIENT	.00006	.03575	-.00029	-.00306	.00002	.00001	-.00004	-.38384	-.27670	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM044) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 5.000

RUN NO. 24/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.962	-.00325	.26458	.06022	-.03322	.00041	.00040	.00087	29.71253	32.56831	12.57784
4.000	17.299	-.00313	.38722	.05906	-.04095	.00051	.00044	.00078	23.04904	25.90482	11.62591
4.000	21.633	-.00256	.52571	.05827	-.04901	.00047	.00047	.00055	22.09711	21.14518	11.62591
4.000	27.151	-.00187	.71905	.05708	-.06445	.00058	.00053	.00022	15.43362	19.24133	11.62591
	GRADIENT	.00010	.03211	-.00022	-.00219	.00001	.00001	-.00005	-.93624	-.93707	-.05862

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM045) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 37.000
RN/L = 1.000

RUN NO. 27/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.433	-.00048	.23260	.05972	-.02571	-.00003	.00009	.00098	6.86628	7.81821	4.01050
4.000	16.513	-.00062	.35546	.05921	-.03389	-.00004	.00009	.00142	6.86628	6.86628	4.01050
4.000	20.577	-.00073	.49515	.05929	-.04369	.00019	.00013	.00178	5.91435	7.81821	4.01050
4.000	25.631	-.00092	.67508	.05659	-.05876	-.00004	.00060	.00176	5.91435	6.86628	4.96243
4.000	30.775	-.00071	.86857	.05462	-.07763	.00044	.00036	.00175	5.91435	5.91435	4.01050
4.000	35.913	.00024	1.07893	.05058	-.10164	.00005	.00129	-.00135	4.96243	5.91435	4.96243
	GRADIENT	.00002	.03605	-.00038	-.00320	.00001	.00004	-.00007	-.07439	-.08176	.03495

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM046) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 99.000
RN/L = 1.000

RUN NO. 35/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.416	-.00253	.25048	.05594	-.02317	-.00057	.00032	.00503	7.81821	7.81821	4.01050
4.000	16.522	-.00293	.36767	.05523	-.03029	-.00086	.00074	.00543	6.86628	7.81821	4.01050
4.000	20.617	-.00285	.50735	.05448	-.04005	-.00082	.00156	.00438	5.91435	6.86628	4.01050
4.000	25.698	-.00282	.68809	.05242	-.05331	-.00173	.00281	.00282	4.96243	4.96243	4.01050
4.000	30.777	-.00245	.86707	.05124	-.07335	-.00125	.00238	.00276	4.96243	4.96243	4.01050
4.000	35.914	-.00183	1.09754	.04723	-.09737	-.00144	.00274	.00110	4.01050	4.96243	4.01050
	GRADIENT	.00003	.03624	-.00035	-.00313	-.00004	.00011	-.00018	-.15385	-.14879	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM047) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 103.000
RN/L = 3.000

RUN NO. 22/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.674	-.00150	.25285	.05850	-.03066	.00006	.00017	.00086	18.28940	19.24133	9.72206
4.000	16.908	-.00099	.37219	.05724	-.03787	-.00001	.00030	.00038	16.38555	16.38555	8.77013
4.000	21.069	-.00154	.50633	.05685	-.04596	.00006	.00034	.00077	12.57784	14.48170	9.72206
4.000	26.454	-.00135	.69426	.05605	-.06038	.00000	.00067	.00026	13.52977	14.48170	8.77013
4.000	31.720	-.00015	.90037	.05416	-.08168	.00050	.00049	-.00029	11.62591	11.62591	8.77013
4.000	37.130	.00155	1.12218	.05113	-.10656	.00024	.00126	-.00247	11.62591	11.62591	8.77013
	GRADIENT	.00011	.03558	-.00028	-.00308	.00001	.00004	-.00011	-.26380	-.29976	-.03343

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM048) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 178.000
RN/L = 5.000

RUN NO. 25/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.928	-.00410	.25886	.05793	-.03013	.00016	.00026	.00142	28.76060	32.56831	15.43362
4.000	17.287	-.00317	.38276	.05676	-.03734	.00007	.00030	.00100	22.09711	26.85675	14.48170
4.000	21.649	-.00287	.52072	.05597	-.04574	-.00002	.00041	.00077	20.19326	22.09711	14.48170
4.000	27.154	-.00145	.71339	.05484	-.06139	.00001	.00065	-.00013	21.14518	25.90482	14.48170
	GRADIENT	.00018	.03200	-.00021	-.00219	-.00001	.00003	-.00011	-.50559	-.49579	-.05852

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM049) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 199.000
RN/L = 1.000

RUN NO. 28/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.421	-.00119	.22128	.05180	-.01945	-.00168	.00138	.00076	6.86628	7.81821	4.01050
4.000	16.539	-.00085	.33838	.05105	-.02465	-.00208	.00272	-.00161	6.86628	6.86628	4.01050
4.000	20.562	-.00040	.47833	.05079	-.03452	-.00295	.00412	-.00425	5.91435	5.91435	4.01050
4.000	25.683	-.00012	.65685	.04915	-.04778	-.00362	.00495	-.00577	4.96243	4.96243	4.01050
4.000	30.808	-.00086	.85720	.04758	-.06770	-.00252	.00302	-.00147	4.96243	4.96243	4.01050
4.000	35.958	-.00090	1.06711	.04411	-.09162	-.00137	.00258	-.00150	4.01050	4.96243	4.01050
	GRADIENT	.00002	.03613	-.00031	-.00307	.00001	.00004	-.00006	-.12623	-.12366	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM050) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 328.000
RN/L = 1.000

RUN NO. 29/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.394	-.00046	.21624	.04518	-.01064	-.00412	.00473	-.00525	6.86628	7.81821	4.01050
4.000	16.500	-.00025	.33389	.04396	-.01775	-.00476	.00629	-.00767	6.86628	6.86628	4.96243
4.000	20.540	-.00105	.46795	.04476	-.02655	-.00505	.00641	-.00594	4.96243	5.91435	4.01050
4.000	25.676	-.00063	.65445	.04406	-.03904	-.00548	.00703	-.00746	4.96243	4.96243	4.01050
4.000	30.784	-.00182	.84699	.04164	-.05966	-.00308	.00352	-.00011	4.01050	4.96243	4.01050
4.000	35.869	-.00086	1.05762	.03795	-.08173	-.00232	.00322	-.00160	4.01050	4.96243	4.01050
	GRADIENT	-.00004	.03596	-.00027	-.00301	.00009	-.00010	.00025	-.13625	-.12391	-.01730

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM051) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -2.500 PO-JET = 328.000
RN/L = 1.000

RUN NO. 33/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.469	-2.51273	.23333	.04571	-.01192	-.00227	.00587	.02354	8.77013	9.72206	4.01050
4.000	16.559	-2.51271	.35037	.04460	-.01707	-.00219	.00761	.02130	9.72206	9.72206	4.01050
4.000	20.657	-2.51261	.49029	.04380	-.02501	-.00305	.00985	.01871	8.77013	8.77013	4.01050
4.000	25.696	-2.51261	.67060	.04323	-.04010	-.00234	.00987	.01887	6.86628	6.86628	4.01050
4.000	30.793	-2.51260	.86309	.04151	-.05879	.00066	.00718	.02214	4.96243	4.96243	4.01050
4.000	35.875	-2.51162	1.07353	.03851	-.08273	.00190	.00709	.02076	4.01050	4.96243	4.01050
	GRADIENT	.00003	.03602	-.00028	-.00303	.00019	.00002	-.00006	-.24631	-.24388	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM052) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = -5.000 PO-JET = 328.000
RN/L = 1.000

RUN NO. 32/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.478	-5.03977	.23273	.04603	-.01185	-.00121	.00862	.04671	10.67399	10.67399	4.01050
4.000	16.691	-5.04009	.35526	.04519	-.01803	-.00045	.00979	.04597	10.67399	10.67399	4.01050
4.000	20.732	-5.03972	.49494	.04539	-.02780	-.00008	.01211	.04224	10.67399	9.72206	4.01050
4.000	25.747	-5.03941	.66343	.04340	-.03865	.00163	.01247	.04132	7.81821	6.86628	4.01050
4.000	30.768	-5.03910	.85618	.04269	-.05740	.00425	.01176	.04176	6.86628	5.91435	4.01050
4.000	35.897	-5.03806	1.07212	.03939	-.08239	.00596	.01123	.04040	5.91435	4.96243	4.01050
	GRADIENT	.00007	.03580	-.00026	-.00296	.00032	.00011	-.00027	-.23423	-.27920	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM053) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 559.000
RN/L = 3.000

RUN NO. 23/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.655	-.00310	.24554	.05125	-.02323	-.00108	.00045	.00162	18.28940	20.19326	.72206
4.000	16.879	-.00257	.36574	.05024	-.02995	-.00205	.00172	-.00041	17.33748	19.24133	9.72206
4.000	21.079	-.00245	.49757	.04840	-.03637	-.00308	.00363	-.00296	15.43362	14.48170	10.67399
4.000	26.403	-.00219	.68772	.04835	-.05126	-.00391	.00470	-.00453	11.62591	12.57784	10.67399
4.000	31.733	-.00268	.89167	.04695	-.07154	-.00285	.00357	-.00261	10.67399	11.62591	10.67399
4.000	37.047	-.00200	1.10949	.04456	-.09566	-.00237	.00335	-.00275	10.67399	11.62391	9.72206
	GRADIENT	.00003	.03555	-.00025	-.00295	-.00005	.00012	-.00017	-.35785	-.38625	.01421

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4 (APM054) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 600.000
RN/L = 1.000

RUN NO. 30/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.486	-.00022	.20026	.03380	.00426	-.00060	.01114	-.01433	6.86628	7.81821	4.01050
4.000	16.541	-.00008	.32315	.03395	-.00396	-.00057	.01170	-.01525	6.86628	6.86628	4.01050
4.000	21.607	-.00124	.46285	.03409	-.01183	-.00823	.01026	-.01066	4.96243	4.96243	4.01050
4.000	25.694	-.00209	.65475	.03445	-.02726	-.00650	.00739	-.00484	4.01050	4.96243	4.01050
4.000	30.917	-.00249	.85295	.03184	-.04711	-.00449	.00481	-.00040	4.01050	4.96243	4.01050
4.000	35.896	-.00179	1.05815	.02895	-.07004	-.00421	.00494	-.00193	4.01050	4.96243	4.01050
	GRADIENT	-.00009	.03680	-.00019	-.00315	.00022	-.00033	.00058	-.14136	-.11651	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (APM055) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 41/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.900	-.195	.00122	-.01901	.08734	-.00880	-.00007	.00039	-.00105	105.38210	129.18028	53.97804
2.900	4.055	.00341	.10637	.06403	-.02567	-.00001	.00010	-.00154	101.57479	110.14174	56.83383
2.900	8.440	.00448	.23675	.08102	-.04220	.00028	.00024	-.00232	85.39164	93.00705	52.07419
2.900	12.665	.00459	.36271	.07749	-.05621	.00029	.00029	-.00267	58.73768	79.68007	45.41070
2.900	16.992	.00404	.50134	.07443	-.07163	.00029	.00035	-.00246	43.50665	65.40117	37.79529
2.900	21.468	.00328	.65425	.07089	-.08642	.00025	.00055	-.00316	31.13180	52.07419	36.84336
	GRADIENT	.00052	.02950	-.00078	-.00397	.00001	-.00007	-.00012	-.89593	-4.47966	.67195

RUN NO. 43/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.214	.00021	-.02015	.07982	-.01202	.00026	.00026	-.00040	72.06466	83.48778	28.27602
2.950	4.006	.00175	.06720	.07705	-.02474	.00027	.00026	-.00104	72.06466	71.11273	29.22794
2.950	8.273	.00186	.20482	.07472	-.03556	.00028	.00041	-.00140	53.97804	57.78575	26.37216
2.950	12.509	.00193	.32320	.07180	-.04651	.00041	.00034	-.00160	35.89143	48.26648	23.51638
2.950	16.742	.00093	.45553	.06948	-.06043	.00039	.00021	-.00087	23.51638	38.74721	18.75675
2.950	21.032	.00144	.59804	.06652	-.07348	.00057	.00027	-.00105	18.75675	31.13180	19.70867
	GRADIENT	.00036	.02544	-.00066	-.00301	.00000	.00000	-.00015	.00000	-2.93248	.22557

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (APH056) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 151.000
RN/L = 3.000

RUN NO. 44/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.265	-.00078	-.02444	.07777	-.00968	.00005	.00014	.00029	71.11273	84.43971	30.17967
2.950	4.190	.00058	.09030	.07475	-.02233	.00007	.00025	-.00039	72.06466	70.16080	31.13180
2.950	8.265	.00078	.20189	.07273	-.03205	.00002	.00034	-.00073	55.88190	57.78575	29.22794
2.950	12.478	.00196	.31888	.06933	-.04319	.00017	.00034	-.00162	35.89143	47.31456	26.37216
2.950	16.896	.00215	.45464	.06892	-.05677	.00017	.00028	-.00162	24.46831	39.69914	23.51638
2.950	21.068	.00088	.59126	.06412	-.06875	-.00016	.00030	-.00079	20.66060	33.98758	23.51638
	GRADIENT	.00031	.02577	-.00068	-.00284	.00000	.00002	-.00015	.21377	-3.20658	.21377

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (APH057) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 196.000
RN/L = 3.000

RUN NO. 42/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
2.900	-.185	.00222	-.02151	.08507	-.00567	-.00017	.00028	-.00138	104.43018	126.22835	56.83383
2.900	4.070	.00390	.10857	.08192	-.02335	-.00022	.00011	-.00159	101.57439	109.18981	56.83383
2.900	8.357	.00454	.23290	.07940	-.03928	.00001	.00024	-.00235	88.24742	93.00705	50.17034
2.900	12.656	.00412	.36055	.07546	-.05315	-.00004	.00026	-.00241	59.68961	79.68007	46.36263
2.900	16.977	.00393	.50053	.07214	-.06839	-.00026	.00024	-.00226	43.59685	65.40117	42.55492
2.900	21.291	.00267	.64462	.06837	-.08116	-.00043	.00036	-.00167	32.08372	59.68961	42.55492
	GRADIENT	.00030	.03010	-.00074	-.00408	-.00001	-.00004	-.00005	-.67116	-4.47439	-.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (APM058) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 1.000

RUN NO. 48/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.408	-.00085	.23884	.06145	-.03073	.00048	.00053	.00033	5.42977	7.33362	3.52591
4.000	16.515	-.03022	.36014	.06048	-.03712	.00052	.00069	-.00095	5.42977	6.38170	2.57399
4.000	20.538	-.00032	.49695	.06054	-.04727	.00073	.00057	.00008	4.47784	6.38170	2.57399
4.000	25.713	-.00037	.67800	.05893	-.06072	.00049	.00078	-.00007	4.47784	6.38170	2.57399
4.000	30.768	-.00014	.87645	.05796	-.08260	.00100	.00066	-.00118	4.47784	6.38170	2.57399
4.000	35.930	-.00010	1.08898	.05451	-.10472	.00104	.00098	-.00248	3.52591	5.42977	3.52591
	GRADIENT	.00002	.03620	-.00027	-.00317	.00002	.00001	-.00009	-.07430	-.05702	.00253

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (APM059) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 45/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.472	-.00043	.25423	.06040	-.03358	.00041	.00054	-.00029	17.80482	18.75675	7.33362
4.000	16.915	-.00008	.37392	.05961	-.04160	.00043	.00054	-.00080	14.94904	15.90096	7.33362
4.000	21.073	.00007	.50362	.05896	-.04930	.00051	.00050	-.00064	13.04518	13.99711	7.33362
4.000	26.321	.00084	.69486	.05827	-.06386	.00053	.00054	-.00130	9.23748	13.99711	7.33362
4.000	31.713	.00083	.89738	.05672	-.08401	.00100	.00050	-.00124	9.23748	13.99711	7.33362
4.000	37.108	.00233	1.11540	.05330	-.10847	.00091	.00084	-.00330	11.14133	11.14133	7.33362
	GRADIENT	.00010	.03536	-.00026	-.00303	.00002	.00001	-.00010	-.30743	-.25021	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (APM080) (06 FEB 74)

REFERENCE DATA

SREF = .7243 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 37.000
RN/L = 1.000

RUN NO. 49/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CRL	CYN	CY	PB1	PB2	PB3
4.000	12.385	.00009	.25264	.05979	-.02763	.00004	.00046	-.00115	5.42977	7.33362	2.57399
4.000	16.472	-.00079	.35404	.05900	-.03594	.00024	.00055	.00044	5.42977	7.33362	3.52591
4.000	20.536	-.00018	.49101	.05943	-.04425	.00049	.00036	.00005	4.47784	7.33362	2.57399
4.000	25.788	-.00021	.67538	.05800	-.05675	.00025	.00057	-.00015	4.47784	6.38170	3.52591
4.000	30.786	-.00101	.86575	.05625	-.07053	.00076	.00044	-.00117	4.47784	5.42977	2.57399
4.000	36.043	.00051	1.08948	.05210	-.10474	.00061	.00113	-.00402	2.57399	5.42977	3.52591
	GRADIENT	.00003	.03617	-.00030	-.00320	.00002	.00002	-.00012	-.10362	-.09852	.01747

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (APM061) (06 FEB 74)

REFERENCE DATA

SREF = .7243 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.0828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000 PO-JET = 100.000
RN/L = 1.000

RUN NO. 53/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CRL	CYN	CY	PB1	PB2	PB3
4.000	12.485	-.00180	.25648	.05693	-.02433	-.00031	.00049	.00280	5.42977	7.33362	2.57399
4.000	16.475	-.00153	.37225	.05488	-.03162	-.00027	.00065	.00161	5.42977	7.33362	2.57359
4.000	20.609	-.00189	.50888	.05612	-.04175	-.00030	.00116	.00263	4.47784	5.42977	2.57399
4.000	25.654	-.00208	.68207	.05480	-.05600	-.00077	.00158	.00249	4.47784	5.42977	3.52591
4.000	30.764	-.00171	.86270	.05352	-.07600	-.00026	.00125	.00135	2.57399	5.42977	2.57399
4.000	35.914	-.00167	1.09454	.04958	-.09806	-.00022	.00157	.00006	2.57399	4.47784	2.57399
	GRADIENT	.00000	.03583	-.00030	-.00315	.00000	.00004	-.00009	-.13921	-.11934	.00489

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (APM062) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.3628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 103.000
RN/L = 3.000

RUN NO. 46/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.671	-.00040	.25048	.05837	-.03024	.00017	.00035	-.00032	16.85289	18.75675	7.33362
4.000	16.662	-.00046	.36771	.05742	-.03784	.00002	.00042	-.00039	14.94904	15.90096	8.28555
4.000	21.082	-.00027	.49994	.05690	-.04598	.00001	.00039	-.00025	12.09326	13.99711	8.28555
4.000	26.412	.00002	.68539	.05627	-.06007	.00003	.00064	-.00085	12.09326	13.99711	7.33362
4.000	31.717	.00062	.88776	.05436	-.08060	.00044	.00045	-.00129	11.14133	11.14133	8.28555
4.000	37.043	.00140	1.10783	.05177	-.10570	.00033	.00101	-.00287	10.18940	11.14133	8.28555
	GRADIENT	.00007	.03525	-.00025	.00305	.00001	.00002	-.00010	-.25523	-.30059	.02142

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (APM063) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.3628 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 199.000
RN/L = 1.000

RUN NO. 50/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.396	-.00112	.22767	.05252	-.01871	-.00099	.00041	.00148	5.42977	7.33362	2.57399
4.000	16.670	-.00096	.34301	.05151	-.02594	-.00119	.00099	.00025	5.42977	7.33362	3.52591
4.000	20.542	-.00075	.47453	.05152	-.03505	-.00142	.00145	-.00019	4.47784	5.42977	3.52591
4.000	25.755	-.00090	.65954	.05143	-.04781	-.00188	.00187	-.00043	4.47784	5.42977	2.57399
4.000	30.752	-.00089	.85461	.04974	-.06856	-.00095	.00097	-.00001	2.57399	5.42977	2.57399
4.000	35.736	-.00091	1.05540	.04630	-.09034	-.00067	.00127	-.00113	2.57399	5.42977	2.57399
	GRADIENT	.00001	.03578	-.00023	-.00306	.00001	.00003	-.00008	-.13965	-.08985	-.02484

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (APM064) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 328.000
RN/L = 1.000

RUN NO. 51/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.384	-.00177	.21631	.04755	-.01067	-.00199	.00049	.00277	5.42977	8.28555	2.57399
4.000	16.512	-.00061	.33772	.04705	-.01899	-.00186	.00157	-.00128	5.42977	7.33362	2.57399
4.000	20.639	-.00095	.47442	.04562	-.02910	-.00213	.00188	-.00031	4.47784	6.38170	2.57399
4.000	25.667	-.00112	.65407	.04580	-.04267	-.00260	.00230	-.00051	3.52591	5.42977	2.57399
4.000	30.775	-.00212	.84844	.04341	-.06148	-.00174	.00091	.00269	2.57399	4.47784	2.57399
4.000	35.947	-.00154	1.06056	.04158	-.08556	-.00142	.00136	.00004	2.57399	4.47784	3.52591
	GRADIENT	-.00002	.03592	-.00025	-.00313	.00002	.00001	-.00001	-.14355	-.17086	.02978

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN4C (APM065) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 559.000
RN/L = 3.000

RUN NO. 47/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.649	-.00136	.24121	.05171	-.02248	-.00081	.00027	.00047	16.85299	18.75675	8.28555
4.000	16.900	-.00263	.35851	.05081	-.02949	-.00131	.00033	.00128	15.90096	18.75675	8.28555
4.000	21.046	-.00169	.48703	.04951	-.03627	-.00189	.00134	-.00052	13.99711	14.94904	9.23748
4.000	26.409	-.00172	.67451	.04935	-.05078	-.00227	.00181	-.00118	10.18940	10.18940	9.23748
4.000	31.714	-.00242	.87675	.04766	-.07128	-.00142	.00119	-.00013	8.28555	10.18940	9.23748
4.000	37.078	-.00248	1.09869	.04540	-.09611	-.00118	.00111	-.00026	9.23748	11.14133	8.28555
	GRADIENT	-.00003	.03520	-.00024	-.00299	-.00001	.00004	-.00005	-.37416	-.39295	.01409

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN40 (APM066) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8826 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 600.000
RN/L = 1.000

RUN NO. 52/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.405	-.00250	.20535	.03734	.00329	-.00341	.00178	.00258	5.42977	7.33362	2.57399
4.000	16.513	-.00248	.32672	.03582	-.00498	-.00336	.00257	.00135	5.42977	6.38170	2.57399
4.000	20.524	-.00255	.45783	.03540	-.01408	-.00387	.00246	.00226	3.52591	5.42977	2.57399
4.000	25.682	-.00314	.64895	.03508	-.02981	-.00414	.00254	.00345	2.57399	5.42977	2.57399
4.000	30.768	-.00315	.84311	.03455	-.04866	-.00296	.00163	.00391	2.57399	4.47784	2.57399
4.000	35.909	-.00250	1.06125	.03182	-.07193	-.00312	.00210	.00112	2.57399	4.47784	2.57399
	GRADIENT	-.00002	.03650	-.00019	-.00318	.00002	-.00001	.00001	-.14114	-.11889	-.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (APN067) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.6828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 63/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.500	-.087	.00111	-.01352	.08676	-.00969	.00003	.00023	-.00083	103.55715	129.25918	51.20117
2.500	4.293	.00280	.11803	.08380	-.02747	.00015	.00015	-.00152	95.94174	110.22064	54.05695
2.500	8.565	.00313	.24460	.08095	-.04323	.00037	.00027	-.00171	80.71091	94.98981	49.29732
2.500	12.716	.00393	.36973	.07754	-.05750	.00038	.00026	-.00190	56.91273	81.66283	41.68190
2.500	17.013	.00317	.50754	.07438	-.07232	.00053	.00037	-.00172	41.68190	67.38393	35.97034
2.500	21.258	.00361	.65409	.07102	-.08637	.00050	.00061	-.00237	30.25877	54.05695	35.01841
	GRADIENT	.00039	.03003	-.00068	-.00406	.00003	-.00002	-.00016	-1.73868	-4.34670	.65200

RUN NO. 65/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.213	-.00106	-.01988	.07979	-.01292	.00024	.00025	.00023	71.19164	84.51861	27.40299
2.950	4.097	.00038	.09132	.07695	-.02511	.00026	.00033	-.00064	70.23971	71.19164	28.35492
2.950	8.228	.00111	.20455	.07459	-.03551	.00039	.00043	-.00103	52.15310	58.81658	25.49914
2.950	12.372	.00190	.32622	.07162	-.04705	.00058	.00028	-.00106	36.92226	49.29732	21.69143
2.950	16.762	.00217	.45660	.06929	-.06057	.00059	.00042	-.00141	27.40299	41.68190	18.83565
2.950	21.018	.00383	.59787	.06632	-.07389	.00074	.00058	-.00264	19.78758	33.11456	17.88372
	GRADIENT	.00033	.02580	-.00063	-.00283	.00000	.00002	-.00020	-.22087	-3.09210	.22087

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (APM068) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 151.000
RN/L = 3.000

RUN NO. 66/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.950	-.208	-.00036	-.02136	.07923	-.01261	.00025	.00023	-.00011	70.23971	84.51861	27.40299
2.950	4.052	.00050	.08987	.07692	-.02532	.00026	.00028	-.00063	70.23971	71.19164	27.40299
2.950	8.219	.00127	.20460	.07461	-.03552	.00033	.00038	-.00105	51.20117	58.81658	22.64336
2.950	12.471	.00303	.32349	.07142	-.04652	.00054	.00035	-.00176	35.01841	48.34539	21.69143
2.950	16.752	.00245	.45630	.06884	-.06051	.00059	.00032	-.00141	24.54721	39.77804	17.88372
2.950	21.073	.00342	.59969	.06598	-.07372	.00073	.00050	-.00230	17.88372	31.21070	19.78758
	GRADIENT	.00020	.02611	-.00054	-.00298	.00000	.00001	-.00012	-.00000	-3.12840	-.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (APM069) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 185.000
RN/L = 3.000

RUN NO. 64/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
2.900	-.183	.00100	-.01480	.08636	-.00944	-.00008	.00026	-.00084	102.60523	129.25918	52.15310
2.900	4.097	.00272	.11394	.08392	-.02672	.00020	.00014	-.00148	95.94174	111.17257	53.10502
2.900	8.356	.00392	.23915	.08121	-.04266	.00032	.00020	-.00201	81.66283	94.98981	46.44153
2.900	12.656	.00447	.36812	.07733	-.05720	.00044	.00028	-.00219	56.91273	81.66283	41.68190
2.900	17.062	.00324	.51132	.07400	-.07260	.00048	.00038	-.00177	42.63383	66.43200	36.92226
2.900	21.360	.00325	.65798	.07070	-.08667	.00044	.00054	-.00210	30.25877	53.10502	36.92226
	GRADIENT	.00040	.03008	-.00057	-.00404	.00007	-.00003	-.00015	-1.55689	-4.22584	.22241

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (APM070) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 1.000

RUN NO. 57/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.432	-.00173	.25046	.06319	-.02924	.00011	.00008	.00480	8.36445	8.36445	2.65289
4.000	16.511	-.00132	.37358	.06236	-.03765	.00038	.00021	.00388	7.41253	7.41253	2.65289
4.000	20.595	-.00143	.51288	.06260	-.04848	.00063	.00022	.00339	6.46060	7.41253	2.65289
4.000	25.662	-.00152	.68731	.05986	-.06069	.00064	.00044	.00323	5.50867	7.41253	2.65289
4.000	30.706	-.00129	.86704	.05796	-.08185	.00112	.00022	.00317	5.50867	6.46060	2.65289
4.000	35.922	-.00068	1.09723	.05422	-.10318	.00093	.00058	.00150	4.55675	5.50867	2.65289
	GRADIENT	.00003	.03612	-.00037	-.00513	.00004	.00002	-.00012	-.15403	-.10442	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (APM071) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = .000
RN/L = 3.000

RUN NO. 54/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.699	-.00197	.25837	.06089	-.03308	.00045	.00040	.00130	17.68372	19.78752	7.41253
4.000	16.916	-.00150	.38009	.05963	-.04087	.00063	.00051	.00081	15.97967	15.97967	7.41253
4.000	21.094	-.00190	.51144	.05904	-.04882	.00062	.00048	.00097	14.07602	15.02794	7.41253
4.000	26.440	-.00131	.70111	.05847	-.06358	.00072	.00059	.00035	10.26831	14.07602	7.41253
4.000	31.727	-.00070	.90513	.05645	-.08359	.00120	.00036	.00027	11.22024	14.07602	7.41253
4.000	37.042	.00020	1.12488	.05335	-.10942	.00116	.00081	-.00092	12.17216	11.22024	7.41253
	GRADIENT	.00008	.03566	-.00028	-.00306	.00005	.00001	-.00008	-.26519	-.28436	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (APH072) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9310 INCHES
LREF = 7.8020 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 37.000
RN/L = 1.000

RUN NO. 58/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.399	-.00177	.24455	.06171	-.02994	.00035	.00007	.00490	7.41253	7.41253	1.70096
4.000	16.499	-.00134	.36761	.06130	-.03666	.00038	.00020	.00393	7.41253	7.41253	2.65289
4.000	20.582	-.00145	.50710	.06157	-.04733	.00062	.00021	.00364	4.55675	7.41253	2.65289
4.000	25.730	-.00190	.69332	.06000	-.06183	.00064	.00045	.00318	5.50867	7.41253	2.65289
4.000	30.832	-.00067	.89232	.05771	-.08103	.00092	.00037	.00167	5.50867	6.46060	2.65289
4.000	35.887	-.00091	1.09738	.05383	-.10508	.00069	.00101	.00147	4.55675	6.46060	1.70096
	GRADIENT	.00004	.03647	-.00032	-.00318	.00002	.00005	-.00015	-.11144	-.04704	-.00237

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (APH073) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9310 INCHES
LREF = 7.8020 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 100.000
RN/L = 1.000

RUN NO. 59/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.409	-.00177	.24452	.06163	-.02993	.00035	.00007	.00491	7.41253	7.41253	1.70096
4.000	16.499	-.00134	.36748	.06127	-.03665	.00038	.00020	.00393	6.46060	7.41253	1.70096
4.000	20.582	-.00157	.50882	.06094	-.04729	.00039	.00043	.00360	5.50867	7.41253	1.70096
4.000	25.673	-.00143	.68746	.05975	-.06073	.00005	.00193	-.00108	5.50867	7.41253	2.65289
4.000	30.761	-.00081	.88673	.05752	-.08186	.00025	.00136	.00021	5.50867	6.46060	1.70096
4.000	35.911	-.00089	1.09750	.05424	-.10524	.00030	.00214	-.00139	5.50867	6.46060	1.70096
	GRADIENT	.00007	.03639	-.00030	-.00314	-.00001	.00009	-.00029	-.07190	-.04711	.00494

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (APM074) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 103.000
RN/L = 3.000

RUN NO. 55/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	FB1	FB2	FB3
4.000	12.682	-.00182	.28034	.06071	-.03345	.00045	.00033	.00128	17.88372	19.78758	7.41253
4.000	16.686	-.00192	.38014	.05951	-.04087	.00053	.00040	.00126	16.93180	16.93180	7.41253
4.000	21.077	-.00131	.51341	.05890	-.04918	.00064	.00053	.00049	14.07602	15.02794	7.41253
4.000	26.394	-.00131	.69923	.05839	-.06322	.00064	.00059	.00035	10.26831	15.02794	6.46060
4.000	31.705	-.00070	.90516	.05631	-.08358	.00120	.00036	.00027	11.22024	13.12409	7.41253
4.000	37.039	.00097	1.12297	.05334	-.10806	.00095	.00112	-.00188	12.17216	11.22024	7.41253
	GRADIENT	.00010	.03553	-.00028	-.00303	.00003	.00002	-.00011	-.28160	-.31295	-.00473

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (APM075) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 199.000
RN/L = 1.000

RUN NO. 60/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	FB1	FB2	FB3
4.000	12.409	-.00114	.24451	.06101	-.02991	-.00004	.00120	.00204	7.41253	7.41253	1.70096
4.000	16.499	-.00107	.36773	.06008	-.03665	-.00048	.00198	.00099	6.46060	7.41253	1.70096
4.000	20.562	-.00098	.50718	.06045	-.04735	-.00067	.00277	-.00077	4.55675	7.41253	1.70096
4.000	25.684	-.00069	.68767	.05958	-.06063	-.00132	.00358	-.00272	5.50867	7.41253	1.70096
4.000	30.772	-.00066	.88680	.05738	-.08189	-.00041	.00257	-.00129	5.50867	6.46060	1.70096
4.000	35.887	.00006	1.09728	.05375	-.10511	-.00013	.00271	-.00287	5.50867	5.50867	1.70096
	GRADIENT	.00005	.03639	-.00028	-.00320	-.00000	.00006	-.00020	-.06445	-.07690	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (APM076) (08 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 328.000
RN/L = 1.000

RUN NO. 61/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.418	-.00066	.24475	.06026	-.02998	-.00133	.00376	-.00238	7.41253	6.46060	2.65289
4.000	16.519	-.00029	.36783	.05978	-.03673	-.00197	.00510	-.00486	7.41253	7.41253	2.65289
4.000	20.562	-.00049	.50752	.06034	-.04746	-.00220	.00534	-.00523	5.50867	7.41253	2.65289
4.000	25.652	.00014	.68758	.05970	-.06086	-.00214	.00549	-.00705	4.55675	7.41253	1.70096
4.000	30.760	-.00002	.88113	.05748	-.07896	-.00104	.00371	-.00416	4.55675	6.46060	1.70096
4.000	35.934	-.00022	1.09700	.05346	-.10318	-.00013	.00313	-.00284	4.55675	5.50867	1.70096
	GRADIENT	.00002	.03626	-.00026	-.00308	.00006	-.00005	-.00000	-.14112	-.04974	-.05202

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (APM077) (06 FEB 74)

REFERENCE DATA

SREF = .7245 SQ.FT. XMRP = 12.9510 INCHES
LREF = 7.8828 INCHES YMRP = .0000 INCHES
BREF = 15.1152 INCHES ZMRP = 6.0000 INCHES
SCALE = .0150

PARAMETRIC DATA

BETA = .000 PO-JET = 559.000
RN/L = 3.000

RUN NO. 56/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.680	-.00152	.25798	.05966	-.03299	.00038	.00051	.00081	17.88372	19.78758	6.46060
4.000	16.893	-.00041	.37825	.05868	-.04113	-.00002	.00175	-.00161	16.93180	15.97987	6.46060
4.000	21.083	.00102	.51169	.05802	-.04949	-.00065	.00292	-.00437	14.07602	14.07602	6.46060
4.000	26.384	.00173	.69959	.05791	-.06331	-.00099	.00370	-.00596	11.22024	15.02794	6.46060
4.000	31.713	.00124	.90207	.05591	-.08318	-.00032	.00297	-.00459	12.17216	13.12409	6.46060
4.000	37.052	.00304	1.12142	.05336	-.10735	-.00012	.00292	-.00575	12.17216	11.22024	6.46060
	GRADIENT	.00016	.03552	-.00024	-.00301	-.00002	.00009	-.00024	-.25996	-.28891	.00000

MA-7,UPWT 1031,ROCKWELL PRR ORB. CONF. BWTN41 (APM078) (06 FEB 74)

REFERENCE DATA

SREF =	.7245 SQ.FT.	XMRP =	12.9510 INCHES		
LREF =	7.8828 INCHES	YMRP =	.0000 INCHES		
BREF =	15.1152 INCHES	ZMRP =	6.0000 INCHES		
SCALE =	.0150				

PARAMETRIC DATA

DETA = .000 PO-JET = 600.000
RN/L = 1.000

RUN NO. 62/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	PB1	PB2	PB3
4.000	12.527	.00135	.25120	.05926	-.02930	-.00431	.00938	-.01414	6.46060	7.41253	2.65289
4.000	16.526	.00105	.36257	.05955	-.03582	-.00456	.00958	-.01368	6.46060	7.41253	2.65289
4.000	20.581	.00115	.50215	.06072	-.04462	-.00388	.00818	-.01252	5.50867	6.46060	2.65289
4.000	25.674	.00057	.68814	.05955	-.05907	-.00324	.00707	-.01005	4.55675	6.46060	2.65289
4.000	30.878	.00051	.89236	.05723	-.07924	-.00143	.00506	-.00710	5.50867	5.50867	2.65289
4.000	35.922	-.00022	1.09693	.05297	-.10314	-.00013	.00313	-.00284	4.55675	5.50867	2.65289
	GRADIENT	-.00006	.03647	-.00025	-.00314	.00019	-.00028	.00048	-.07926	-.09194	.00000